Horse breeding recollections

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HORSE BREEDING RECOLLECTIONS.

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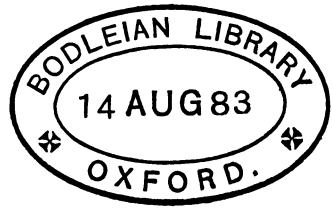
HORSE BREEDING RECOLLECTIONS.

BY

G. LEHNDORFF.



LONDON:
HORACE COX,
"THE FIELD" OFFCE, 346, STRAND, W.C.

1883.

189. h. 2 1.

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PRINTED BY HORACE COX, 346, STRAND, W.C.

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INTRODUCTORY REMARKS.

In the beginning of last year I published a "manual for the breeder of horses," the second edition of which has been issued within ten months of its first appearance. From that book the following chapters are taken.

Although there is in England no want of similar publications, I have, urged by my English friends, ventured to translate that part of my book which refers to the thoroughbred specially; assuming that my personal experiences as a breeder of such might prove acceptable to some of my English colleagues, and form a not uninteresting addition to what has been written and printed on the subject.

England, no doubt, is the cradle of the modern thoroughbred horse; but, since the breed has spread over and thrives in all parts of the habitable globe, where its value as the quintessence of the equine race has been understood and realised, I am of opinion, that its cosmopolitan character should be acknowledged, and act as an inducement to experienced persons to comment on its production and progress, wherever it has found a home.

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NOTES

ON

BREEDING RACEHORSES.

CHAPTER I.

GENERAL OBSERVATIONS.

THE principal requisite in a good racehorse is soundness, again soundness, and nothing but soundness; and the object of the thoroughbred is, to imbue the limbs, the constitution and the nerves of the half-bred horse with that essential quality, and thereby enhance its capabilities.

The thoroughbred can, however, fulfil its mission only provided the yearly produce be continually subjected to severe trials in public. The only appropriate test, proved by the experience of two centuries, is the race-course, although its adversaries oppose it as too one-sided, and propose in its stead others of more or less impracticability. The last struggle for victory, in which culminates the exertion of the race, results from the co-operation of the intellectual, the physical, and the mechanical qualities of the horse, the development of which combined power is higher and more reliable than any that can be obtained in the same animal by other means. The combination of those three qualities forms the value of the horse destined for fast work: the

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mechanical, in respect to the outward shape and construction; the physical, as regards the soundness and normal development of the digestive organs and motive power; the intellectual, or the will and the energy to put the other two into motion and persevere to the utmost. The attained speed is not the aim, but only the gauge, of the performance.

The grand ideal principal which places this test so incomparably higher than any other, based upon the individual opinion of one or more judges, is the absolute and blind justice, personified in the inflexible winning post, which alone decides on the racecourse; and the irrefutable certainty, that neither fashion nor fancy, neither favour nor hatred, neither personal prejudice nor time-serving—frequently observable in the awards at horse shows—have biassed the decision of hotly-contested struggles, as recorded in the Racing Calendar for the space of one hundred and seventy years. This it is that gives to the English thoroughbred horse a value for breeding purposes, unequalled and looked for in vain in any other species of animal creation.

I apprehend great danger from the endeavour to improve horse-racing—like any other human institution, not without its shortcomings—by corrective measures, which might interfere with that principle of blind justice; its fundamental laws would thereby become undermined, and the building, which it took centuries to erect, fall to ruins.

Nothing but the framing of the racing propositions ought to serve as indicator of what is required of the thoroughbred; every state in need of an efficient cavalry, should be careful how to place authority for that purpose in experienced hands and see it used leniently, but on clearly established principles. As for the rest, it should be left to the immutable laws of Nature to gradually mould,

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in outward form and inward composition, that horse which best answers those requirements.

The centre of gravity in all trials of strength and endurance is to be found on the racecourse: the straighter the running track the more infallible the result; the longer and steeper the gradient the severer the test.

As to the distances to be run over, I would recommend for three-year-olds and upwards from one mile to two miles at the scale of weights adopted in the rules of racing at present in force in Prussia, which is about 10lb. above English weights.

Two-year-olds should, due regard being had to the time of year and the state of the ground, never run less than four and a half, nor more than seven furlongs; shorter races ruin their temper more than those over longer distances, in which the pace from the beginning is not so severe, nor the start of so much consequence.

Whoever has had frequent opportunities for observing in a racing stable the development of two-year-old horses will, as a rule, have noticed an evident change about the middle of summer. They quite suddenly lose their foal-like appearance and become young horses. In general this alteration takes place at the same time as the shedding of the two middle teeth; all at once the youngsters are better able to resist the wear and tear of training and improve as the work agrees with them. Of course, this change does not occur simultaneously in all two-year-olds, although they may be equally well reared; nevertheless I have noticed at this period a greater degree of evenness in the development of late and earlier foals than seemed warranted, considering the difference in their respective ages.

As, however, at midsummer the ground frequently is too hard to admit of good work being done with two-year-olds without danger to their legs, I would advocate,

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that the principal races for horses of that age should not take place before the autumn, when owners, who have judiciously saved their young animals during the summer, may indemnify themselves through richer prizes than were offered for competition in the earlier part of the season.

In principle I do not disapprove of running two-year-olds; on the contrary, I take it, if done in moderation, to be an unerring means to ascertain the soundness of the constitution. From midsummer, say 1st of August, I look upon such races, according to the degree of development in the individual horses, as useful; care must, however, be taken not to overdo it, especially with fillies, whose temper is more excitable than that of colts. I have generally noticed that mares which creditably stood the test of two year old training, also proved themselves superior at the stud. Taking, for instance, the most successful brood mares during the twenty years from 1860 to 1879, that is to say, the dams of the winners of the four classic races—Two Thousand Guineas, Derby, Oaks and Leger—of that period, we find upon examination of their earlier career, that of those eighty, or rather eighty-two mares—two races resulted in dead heats, which were not run off—only thirty did not run as two-year-olds. That early ripeness in a racehorse may be regarded as a proof of health, even with regard to later usefulness at the stud, is further corroborated by Little Lady, the dam of the Two Thousand Guineas winner, Camballo, having carried off the Anglesey Stakes for yearlings at Shrewsbury in 1859—the only race of the sort ever run. I mention this circumstance, however, by no means in support of yearlings' races; on the contrary, I look upon them as senseless institutions, which, fortunately, twenty years ago, were abolished in England, the only country where they ever existed.

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The severe training and repeated trials of yearlings, moreover, I take to be dangerous in Germany, where the winter generally sets in and puts a stop to all training operations about the middle of November. In England, and especially in France, where, as a rule, yearlings can be tried about Christmas time, it may be done without detriment to their health; the more so, as in those favoured climates their development is less retarded by the cold, and young horses acquire earlier than in Germany the power which is necessary to bear the strain of training.

I consider the test by hurdle racing, and especially by steeplechasing, rather one of acquired cleverness than of consequence for breeding. The principal race across country in England, the Liverpool Grand National, has repeatedly been won (for instance, in 1863 by Emblem, and in the following year by her own sister, Emblematic, by Teddington out of Miss Batty) by animals not possessed of sufficient staying power to run a mile creditably in even moderate company. This applies more particularly to the younger sister, Emblematic. It is not so much length of distance that constitutes a criterion of endurance, as the pace at which it is run. In a steeplechase this is generally so slow, that a horse, able to race half a mile, is never for a moment extended; if with such speed he combines a quiet temper, so as not to take more out of himself than is required by his rider, he may, in an ordinary race of that description, gallop a long time without being distressed, and, having thus husbanded his strength, have sufficient left in him to enable him to win the race.

Jumping is more a question of agility than of power, except in young and unpractised horses, that tire more through their awkwardness in leaping than through galloping; schooled chasers, however, are required to put

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forth additional energy only, when the race is run at an inconveniently fast pace, difficult for them to continue.

To the practised jumper, on the contrary, the leap over a fence of not extraordinary proportions, if taken at a moderate pace, rather affords him time to recover his breath than causes the waste of additional strength. Since the speedier horse jumps at a slower pace than the slower stayer in proportion to their respective degrees of speed, the former, equal cleverness in jumping taken for granted, must necessarily consume less strength than the latter.

The steeplechase course, therefore, favours, *cæteris paribus*, the speedy horse as compared to the slower stayer, and practice daily shews us instances of horses, that, as non-stayers were useless on the flat, become successful chasers, and, *vice versâ*, stayers on the flat which over a country fail to gain distinction.

Intending regenerators of racing on what they consider more rational principles, therefore, shew a lamentable ignorance of the nature of the horse, when advocating the adoption of the steeplechase as the test by which to gauge the capabilities of the thoroughbred, and would, if they succeeded in their endeavours, attain only the exact reverse of what they aim at. I would recommend those who still insist that steeplechasing is more reliable than racing on the flat, for the purpose of ascertaining power and soundness in a horse, to look round the large steeplechase establishments in England, France, or even Germany, and examine the legs of the horses kept for that kind of work. The numerous patched-up screws that run and win races year after year, would not stand for a month the preparation for a flat race, much less the race itself; and, finally, as to the excellence at the stud of stallions, celebrated as steeplechasers, experience teaches that none such exist who subsequently made a name as sires of racehorses;

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whereas stallions that on the turf belonged to the first class, frequently sired superior chasers. As a touch-stone for mares intended for breeding purposes, steeple-chasing, independent of other considerations, is unsuitable, inasmuch as horses are qualified for such work at a more advanced age only. Whereas, therefore, the brood mare is kept from her vocation longer than is desirable in the interest of breeding, her fitness as a matron suffers pro-portionately by long protracted training.

As far as I know, there is in the whole stud book not a single steeplechase mare that has made for herself a great name as the dam of winners on the flat.

A cardinal point, which continually maintains and regenerates the thoroughbred as a source of power and soundness, and places it, with regard to certainty of pro-pagation, far above all other breeds of the equine race, is the circumstance that the thoroughbred is tried before it is sent to the stud; whereas, of the half-bred, such individuals only as are unfit for breeding purposes, are put to the test. Half-breds at the stud, more especially stallions, from the day they are foaled to that of their death, lead an existence of sluggish idleness, generation after generation, without interruption. However useful cart mares may be in the plough or other kind of slow work, a half-bred brood mare is never subjected to a real trial of her capabilities, and, as an extremely rare occurrence, such a mare returns to the stud on account of an excellence accidentally brought to light; but if, however, done so, it will probably be too late for any use for breeding.

What would become of the usefulness of our half-breds, what of our cavalry, without a continuance of crosses with stallions of pure blood, bred for stoutness and chosen on account of their proper excellent qualities, so as to constantly renew the necessary steel in the breed?

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The thoroughbred is in a much lesser degree the produce of any particular locality than the cart horse or even the half-bred; it is rather one of an artificial nature, better able to withstand external influences and capable of being transplanted to all parts of the globe, and continued without essential deterioration as long as the elementary principle is not lost sight of; that is to say, as long as its capabilities are tried in public, and as long as the best tried animals are in preference used for reproduction. The thoroughbred stands to the half-bred in the same position as the plantation tree to the wild tree of the forest: the former thrives in any locality where trees grow, the latter feels at home only where it first struck root, for having never been transplanted, it wants those fibres by means of which to take hold of and draw sustenance from the new soil.

I do not, however, mean to say that thoroughbred mares are in no way influenced by translocation to other countries and climates; on the contrary, I am of opinion that greater safety will be insured by breeding from mares bred at home, than from imported ones. I merely assert that in the thoroughbred, the power of resistance to local and climatic influences is infinitely higher than in the half-bred, &c.

For this reason the establishment of a stud for thoroughbreds in Germany is less difficult than one intended for the baser breed, provided the locality be adapted to the purpose and the requisite means available. I do not mean to say that faultless brood mares of the first class are easily obtainable in England; but since the price of such mares is eventually almost unlimited in comparison to what half-bred brood mares will command in the market, and, as in numerous instances, owners of eminent mares, which did them good service on the turf, prefer breeding

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from them in public establishments to selling them to the more extensive breeder, in England the fluctuation in the thoroughbred material is influenced in a higher degree by the change of circumstances than that in our half-breds. The chances of a foreigner making a favourable investment, therefore, rise in proportion, provided he is at home in the Racing Calendar, the Stud Book, and last, but not least, the personal concerns of English breeders.

This brings us to the practical question: what must be the aim of the breeder in the selection of brood mares; or, as applied to us, what principles must guide us in the importation of brood mares from England or France, or when choosing from those bred at home?

I believe, if strictly adhered to, the following hints may be depended on as offering the greatest amount of safety in the choice of brood mares:—

1. To buy, without exception, mares from the best strains of blood only, more regard being had to the dam even than to the sire.

2. To bear in mind that a good pedigree alone is not sufficient, because the best bred mare may be unsound; (I thought that by the acquisition of the own sisters to Gladiateur and Vermout, although neither had done anything remarkable on the turf, I had made sure of an enormous success; but both turned out unsound and worthless at the stud); to be, therefore, particular to buy from the best strains of blood such mares only as have

(*a*) Themselves exhibited some form on the turf, and only on account of insufficient age not yet been tried at the stud, or have

(*b*) Already bred winners, and thereby proved themselves sound dams and fit to propagate the excellent qualities of their respective families.

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As a matter of course, of the mares coming within the limits of the foregoing conditions the most powerful and truthfully made will be preferred; but no consideration of the exterior, however prepossessing it may be, if not accompanied by those requisite attributes, should be allowed to prevail, for there is no more baneful, no more certain hereditary evil than unsoundness—especially rheumatic or scrofulous disorders.

I am well aware that with regard to No. 2, and especially sub-division (*a*), I shall meet with vehement opposition, and that a number of instances to the contrary will be cited. They are not unknown to me, but I adhere to my own opinion, for the following reasons:—

When I require in a young mare intended for stud purposes individual performances, I do not mean to say that I would not buy one that had not, on a given number of occasions, been first past the post.

Although I value racing form as such very highly, yet do I consider it of still greater importance that a mare should have proved, by repeated running, even if not attended by eminent success, that no unsoundness of limbs, no organic disease or defect of temper prevented her bearing the strain of training and racing.

I know perfectly well that in numerous instances, thoroughly sound animals with a good temper and all the necessary qualities for racing, through no fault of theirs, but in consequence of a mere accident, have been kept from appearing in public (absolute certainty in that respect can, however, only be acquired by personal superintendence of their training); but I know equally well, that in nine cases in every ten, unsoundness, weakness or temper, have been the cause. It is advisable to rely on the Racing Calendar alone, and not believe a word of the fictitious marvels told of the innumerable mares without public form and

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which tales are spread about by the owners of those animals. If only one-tenth of them were true, there would have been every year at the least, a dozen winners of the One Thousand Guineas, the Oaks, or the Prix de Diane—if one accident or another had not happened.

The affirmation on the part of owners, that the mare for sale had never been trained, was not even broken, likewise frequently differs from the truth, and is solely intended to make the purchaser believe, that she would, in all probability, have done wonders, if she had been put into training. But, in reality, this ought to be considered as a drawback, as, those of a few eccentric breeders excepted, nearly every thoroughbred in England, if sound, well developed, and sufficiently well bred, is sent to be trained; only when too small, unsound, or cripples, are they thought not worth the trouble and expense, and consequently kept at home at grass. I am deterred by the expression "never been in training," or "never been broken," when applied to a young mare, even more than by an injured leg, which tells its own unvarnished tale of the reason of her non-appearance in public. The wisest plan is to keep aloof from both, until they have by their progeny proved their soundness as dams.

A look round the select studs of owners who breed their own racehorses in England and France, (Lord Falmouth, Duke of Westminster, Mr. Lefévre, &c.), will shew that nearly all their brood mares have themselves been winners or are the dams of winners, with the exception of only now and then a mare of their own breeding, or from their racing stables, sent to the stud on trial, of whose internal soundness the owner is perfectly satisfied, and who has only in consequence of an accident been prevented from running on the turf. Mares with high sounding pedigrees, but without any pretensions to indi-

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vidual goodness, form the staple of a good many studs breeding for sale over which a few matrons of sterling worth, bought, if possible, for large sums at public sales, serve to throw a kind of halo. Mares without fashionable pedigrees or previous excellence, which in England are to be had by the dozen for less money than that for which half-bred ones can be purchased on the Continent, are owned by needy people, who wait for a lucky chance, or by second and third-rate breeders, who speculate on selling them to the flats from abroad.

Sir Tatton Sykes, quantitatively one of the most extensive breeders of modern times, sold only his colts, while he allowed the fillies to grow up wild and untried, and kept those he liked best to breed from. The upshot was a stupendous failure, which must have ruined any man less wealthy than the Yorkshire Baronet. He had peculiar ideas, and I think, believed in the soundness of his principle. Had it been anyone else I should have put him down as a very knowing manager; for in a stud breeding for sale, a considerable saving may, no doubt, be effected by substituting for brood mares of well established reputation that cannot be had without the outlay of large sums of money, young and perfectly untried animals which have cost very little to keep, and nothing at all to train. The only difficulty is to make the public, or even a small section of it, share the apparent belief of the owner and induce them to pay for the yearling colts in proportion to their credulity.

If Sir Tatton had been obliged to put all his colts into training, instead of disposing of them to the highest bidder, even for a mere song, as was towards the end the case, he would, I am convinced, in spite of his eccentric obstinacy, soon have changed his mind and principle of breeding. I could continue the subject and make similar

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remarks with regard to some studs of the present day, largely breeding for sale from untried mares. It is thus not surprising to see such breeders on speculation amongst the foremost champions of that theory. Any attempt to get from the same men, who invariably have a large stock of rubbish on hand for sale to the unwary stranger, one of those mares with racing performances, of which, as I explained before, they keep a small number, will be met with the demand of an absurd price, or the stereotyped "not for sale." Should, however, an exception be made and a reasonable sum asked, it is ten to one that there is something wrong about the mare.

On the other hand it is evident that in England latterly a wholesome reaction has commenced to prevail; not so in France, where the thoroughbred is at present in danger of suffering from the pernicious wholesale production from untried mares in studs breeding for sale.

In support of the assertions of those fanatics, who ridicule individual racing form as not hereditary, and look for the probability of propagation of such qualities in the breed only without taking into account the propagating individual, Pocahontas (the dam of Stockwell, Rataplan, King Tom, &c.) is frequently quoted as the irrefutable proof of the correctness of their theory. They copy from one another and rely on the public taking as little trouble as themselves to refer to the Racing Calendar for the old mare's performances. For the benefit of those, who not only look for examples to prove their ready made theories, but are anxious for real facts from which to draw instruction, I will detail the racing career of Pocahontas in order to shew that she comes up to my standard of a good brood mare. Pocahontas, though she was a roarer, by her racing during four seasons proved herself possessed of a good constitution; her form, moreover, was not so inferior

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as many pretend it to have been. If she had run in races of minor importance, she would probably have had more than one winning bracket to her name.

Pocahontas, bred 1837, by Glencoe out of Marpessa (dam of Jeremy Diddler and Boarding School Miss), when two years old, ran only in the Criterion, unplaced to Crucifix.

As a three-year-old she ran twice, also unplaced: in the Oaks, won by Crucifix, and in the Goodwood Cup, won by Beggarman, in which race Lanercost was second and Hetman Platoff third.

At four years of age she ran three times unplaced: in the Goodwood Cup, the Cesarewitch, and the Cambridgeshire.

In the following year, at Goodwood, she won the first heat of a race finally won by Currier. At Brighton she also won the first heat of a race, ultimately won by Miss Heathcote. She made her last appearance on the turf in a mile race heats at Rochester and Chatham, where, in a field of nine horses she won the first heat, and in the other two ran second to Patchwork.

To see mares, celebrated on the turf, like Marie Stuart, Fraulein, &c., turn out indifferent at the stud, may, at least partially, be accounted for by their too arduous and too protracted racing careers.

Lord Falmouth's mares, whose racing careers invariably close with the end of their fourth year, rarely suffer in a like manner. In support of the correctness of this and other assertions advanced by me, I give the list of that nobleman's entire stud at Mereworth, as it existed in 1880. It was composed of the following twenty-four mares :—

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BROOD MARES AT MEREWORTH IN 1880.

Names printed in black letters are those of winners of one or more of the four classic races—Two Thousand Guineas, Derby, Oaks, and St. Leger.

Bred.	Name.	Pedigree.	Own Performances.				Bred the following Winners.
			Year.	Ran.	Won.	Of which Important Races.	
1858	SILVERHAIR	By Kingston out of England's Beauty (dam of the winners: Attraction, The Rake).	1860	3	2	Eglinton Stakes.	Silvester.
			1861	5	1		Silver Ring.
			1862	3	...		Periwig.
				—	—		Garterly Bell.
				11	3		Fetterlock.
							Silvia.
							Apollo.
1870	SILVER RING	By Blair Athol out of Silverhair (dam of the winners: Silvester, Periwig, Garterly Bell, Fetterlock, **Silvia,** Apollo).	1872	7	5	Bretby Stakes.	Ringleader.
			1873	7	1		
				—	—		
				14	6		
1859	HURRICANE	By Wild Dayrell out of Midia (dam of the winners: Cynricus, Avalanche, Tornado, Sydmonton).	1861	4	2	1000 Guineas.	Stromboli.
			1862	8	3		Atlantis.
			1863	4	...		**Atlantic.**
				—	—		Cataclysm.
				16	5		Whirlwind.
1867	ATLANTIS...	By Thormanby out of Hurricane (dam of the winners: Stromboli, **Atlantic,** Cataclysm, Whirlwind).	1869	9	5	Clearwell Stakes.	Henry II.
			1870	2	...	Prendergast Stakes.	
				—	—		
				11	5		
1867	GERTRUDE	By Saunterer out of **Queen Bertha** (dam of the winners: Queen's Messenger, **Spinaway, Wheel of Fortune,** Great Carle).	1869	8	3		King Clovis.
			1870	11	4	Yorkshire Oaks, Great Yorkshire Stakes.	Childeric.
							Charibert.
			1871	10	1		
				—	—		
				29	8		

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BROOD MARES AT MEREWORTH IN 1880—*continued.*

Bred.	Name.	Pedigree.	Own Performances.				Bred the following Winners.
			Year.	Ran.	Won.	Of which Important Races.	
1860	**Queen Bertha**	By Kingston out of Flax (dam of the winners: Reginella, Court Mantle, Linsey Woolsay).	1862	4	1		Gertrude.
			1863	5	2	Oaks.	Queen's Messenger.
			1864	1	...		**Spinaway.**
				—	—		**Wheel of Fortune.**
				10	3		Great Carle.
1872	**Spinaway**	By Macaroni out of **Queen Bertha** (dam of the winners: Gertrude, Queen's Messenger, **Wheel of Fortune,** Great Carle).	1874	3	1		Merry-go-Round.
			1875	13	10	1000 Guineas, Oaks, Nassau Stakes, Yorkshire Oaks, York Cup, Doncaster Stakes, Royal Stakes, Newmarket Oaks.	Darnaway.
				—	—		
				16	11		
1876	**Wheel of Fortune**	By Adventurer, out of **Queen Bertha** (dam of the winners: Gertrude, Queen's Messenger, **Spinaway,** Great Carle).	1878	6	6	Richmond Stakes, Buckenham Stakes, Dewhurst Plate.	
			1879	5	4	1000 Guineas, Oaks, Prince of Wales's Stakes Ascot, Yorkshire Oaks.	
				—	—		
				11	10		
1865	Lady Coventry	By Thormanby out of Lady Roden (dam of the winners: Ma Belle, Liddington, Mirella), by West Australian out of Saunterer and Loiterer's dam.	1867	1	...		Peeping Tom.
			1868	6	1		Yorkshire Bride.
				—	—		Farnese.
				7	1		Lady Golightly.
							Placentia.
							Earl Godwin.
1875	Lady of Mercia	By Blair Athol out of Lady Coventry (dam of the winners: (Peeping Tom, Yorkshire Bride, Farnese, Lady Golightly, Placentia, Earl Godwin).	1877	2	...		

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BROOD MARES AT MEREWORTH IN 1880—*continued.*

Bred.	Name.	Pedigree.	Own Performances.				Bred the following Winners.
			Year.	Ran.	Won.	Of which Important Races.	
1874	LADY GOLIGHTLY	By King Tom out of Lady Coventry (dam of the winners: Peeping Tom, Yorkshire Bride, Farnese, Placentia Earl Godwin).	1876	8	5	Champagne Stakes.	
			1877	15	10	Nassau Stakes, Yorkshire Oaks, Great Yorkshire Stakes, Doncaster Stakes, Newmarket Oaks, Newmarket Derby, II. in St. Leger,	
			1878	8	2	York Cup.	
				31	17		
1876	PLACENTIA	By Parmesan out of Lady Coventry (dam of the winners: Peeping Tom, Yorkshire Bride, Farnese, Lady Golightly, Earl Godwin:	1878	2	1		
			1879	2	...		
				4	1		
1867	WHEAT-EAR	By Young Melbourne out of Swallow (own sister to Stilton and dam of the winners: Whitebait, Lady Bugle Eye, Nightjar, Ortolan, Germania, Merlin).	1869	6	3		Skylark.
			1870	9	4	Ascot Biennial.	Fieldfare.
			1871	4	1	Newmarket Biennial.	Redwing.
				19	8		Leap-Year.
1874	KITTY SPRIGHTLY	By Rosicrucian or Young Dutchman out of Niké (dam of the winners: Juvenis, Dreadnought, Hydromel, Adjutant, Spring Captain, Best and Bravest. Britomartis).	1876	10	3		
			1877	6	1		
				16	4		

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BROOD MARES AT MEREWORTH IN 1880—*continued.*

Bred.	Name.	Pedigree.	Own Performances.				Bred the following Winners.
			Year.	Ran.	Won.	Of which Important Races.	
1875	REDWING...	By Blair Athol out of Wheat-ear (dam of the winners. Skylark, Fieldfare, Leap-Year).	1877	6	5	Hurstbourne Stakes, Astley Stakes, Convivial Stakes.	
			1878	9	1	Coronation Stakes.	
				15	6		
1876	LEAP-YEAR	By Kingcraft out of Wheat-ear (dam of the winners: Skylark, Fieldfare, Redwing).	1878	5	3	Chesterfield Stakes, Prendergast Stakes.	
			1879	5	...		
				10	3		
1864	NIKÉ.....	By Orlando out of Ayacanora (dam of the winners: Cachuca, Chattanooga, Cestus), by Bird-catcher out of Pocahontas.	1866	11	3		Juvenis.
			1867	9	3		Dreadnought.
			1868	6	3		Kitty Sprightly.
				26	9		Hydromel.
							Adjutant.
							Spring Captain.
							Best and Bravest.
							Britomartis.
1869	LILIAN	By Wingrave out of Lady Blanche (dam of the winners: Miss Gratwicke, Parmesina, Zee), by Voltigeur.	1871	7	3		
			1872	14	7	Newmarket Oaks.	
			1873	17	3	Brighton Stakes.	
			1874	32	21	Brighton Cup, Warwick Cup.	
			1875	17	7		
			1876	19	5	Great Ebor Handicap.	
			1877	3	0		
				109	46	and 29 Queen's Plates.	
1870	CANTINIÈRE	By Stockwell out of Cantine (dam of the winners: Picnic, Aventurière), by Orlando out of Vivandière (own sister to Voltigeur).	1872	7	6	Woodcote Stakes, Ascot Biennial, Hurstbourne Stakes, Chesterfield Stakes, Lavant Stakes, Findon Stakes.	Forager. Bal-Gal. Dutch Oven.

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BROOD MARES AT MEREWORTH IN 1880—*continued.*

Bred.	Name.	Pedigree.	Own Performances.				Bred the following Winners.
			Year.	Ran.	Won.	Of which Important Races.	
1868	CHEVI-SAUNCE (own sister to Lord Lyon and Achievement)	By Stockwell out of Paradigm (dam of the winners: King at Arms, Man at Arms, Rouge Dragon, Blue Mantle, Gardevisure, **Lord Lyon, Achievement,** Paraffin).	1870	6	1		**Jannette.** Muriel.
1875	**Jannette** ...	By Lord Clifden out of Chevisaunce (own sister to **Lord Lyon and Achievement**).	1877	7	7	Criterion Stakes, Richmond Stakes, Clearwell Stakes, Bretby Stakes.	
			1878	10	8	Oaks, Midsummer Stakes, Yorkshire Oaks, St. Leger, Park Hill Stakes, Champion Stakes, Newmarket Oaks.	
			1879	7	2	Jockey Club Cup.	
				24	17		
1870	CECILIA ...	By Blair Athol out of Siberia (winner of the 1000 Guineas, and dam of the winners: Patriarch, Dandelion).	1872	5	...		Olivette.
			1873	6	2	1000 Guineas.	
				11	2		
1874	MAVIS	By Macaroni out of Merlette, by The Baron out of Cuckoo.	1876	7	2		Gaillard.
			1877	8	1		
				15	3		
1874	PALMFLOWER	By The Palmer out of Jenny Diver (dam of the winners: Oasis, **Jenny Howlet**), by Buccaneer.	1876	8	4	Hurstbourne Stakes.	
			1877	4	...		
			1878	1	...		
				13	4		

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On examination of the foregoing table of the twenty-four matrons, of which that celebrated stud is composed, it will be seen that

1. It contains not a single mare that has not been on the Turf, and only one (Lady of Mercia) that has not won a race. She was the best-tried yearling in the stable, of enormous size, but she caught influenza, and became a roarer. Further, that
2. There is not one amongst them that did not run at two years of age, or
3. Remained on the Turf longer than four years old, except Lilian, who during her racing career belonged to Mr. Savile, and was not purchased by Lord Falmouth till after its close; or
4. Whose dam had not bred other winners besides herself.

It may be said that breeding from tried and successful mares only is a hobby of Lord Falmouth's, and that the same result might be obtained by other means. It is difficult to deny this with absolute certainty. The following tables, showing the performances of the dams of the winners of the four classic races—Two Thousand Guineas, Derby, Oaks and St. Leger—for the twenty years from 1860 to 1879, compiled for that purpose, however, will at least prove that a greater probability of success is secured by acting on that principle.

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TWO THOUSAND GUINEAS.

Year.	Winner.	Dam of Winner.			
		Name.	Ran.		Won.
			2 years old.	3 years and upwards.	
1860	The Wizard	The Cure mare	—	—	—
1861	Diophantus	Equation	—	8	2
1862	The Marquis	Cinizelli	—	3	—
1863	Macaroni	Jocose	—	4	2
1864	General Peel	Orlando mare	2	—	—
1865	Gladiateur	Miss Gladiator	—	4	—
1866	Lord Lyon	Paradigm	2	—	—
1867	Vauban	Palm	8	—	7
1868	Moslem	Besika	7	26	7
	Formosa	Eller	2	7	2
1869	Pretender	Ferina	—	—	—
1870	Macgregor	Necklace	—	8	—
1871	Bothwell.....	Katherine Logie ...	—	—	—
1872	Prince Charlie	Eastern Princess ...	6	36	7
1873	Gang Forward	Lady Mary.....	—	—	—
1874	Atlantic	Hurricane	4	12	5
1875	Camballo	Little Lady.....	18*	17	16
1876	Petrarch.....	Laura	5	4	2
1877	Chamant	Araucaria	—	7	1
1878	Pilgrimage.....	Lady Audley	—	—	—
1879	Charibert	Gertrude	8	21	8

* Of which once as a yearling.

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DERBY.

Year.	Winner.	Dam of Winner.			
		Name.	Ran.		Won.
			2 years old.	3 years and upwards.	
1860	Thormanby	Alice Hawthorn.....	3	68	49½
1861	Kettledrum	Hybla.....	—	—	—
1862	Caractacus.....	Defenceless	1	—	—
1863	Macaroni	Jocose	—	4	2
1864	Blair Athol.....	Blink Bonny	11	9	14
1865	Gladiateur	Miss Gladiator	—	4	—
1866	Lord Lyon.....	Paradigm	2	—	—
1867	Hermit	Seclusion	6	16	6
1868	Blue Gown.....	Bas Bleu.....	1	7	—
1869	Pretender	Ferina	—	—	—
1870	Kingcraft	Woodcraft	8	1	2
1871	Favonius	Zephyr	5	9	3
1872	Cremorne	Rigolboche	4	4	—
1873	Doncaster	Marigold	—	14	5
1874	George Frederick ...	Princess of Wales ...	8	1	1
1875	Galopin	Flying Duchess.....	8	7	2
1876	Kisber	Mineral	5	13	4
1877	Silvio	Silverhair	3	8	3
1878	Sefton.....	Liverpool's dam.....	1	1	1
1879	Sir Bevys	Lady Langden	6	—	—

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OAKS.

Year.	Winner.	Dam of Winner.			
		Name.	Ran.		Won.
			2 years old.	3 years and upwards.	
1860	Butterfly	Catherine	—	7	4
1861	Brown Duchess	Espoir	5	14	14
1862	Feu de Joie	Jeu d'Esprit	—	3	—
1863	Queen Bertha	Flax	—	—	—
1864	Fille de l'Air	Pauline	—	—	—
1865	Regalia	The Gem	6	2	2
1866	Tormentor	Torment	5	9	8
1867	Hippia	Daughter of the Star	3	16	5
1868	Formosa	Eller	2	7	2
1869	Brigantine	Lady Macdonald	1	1	—
1870	Gamos	Bess Lyon	5	—	—
1871	Hannah	Mentmore Lass	—	6	1
1872	Reine	Fille de l'Air	9	12	13
1873	Marie Stuart	Morgan la Faye	1	1	1
1874	Apology	Mandragora	—	—	—
1875	Spinaway	Queen Bertha	4	6	3
1876	Enguerrande	Deliane	—	3	1
	Camelia	Araucaria	—	7	1
1877	Placida	Pietas (late Faith)	14	15	5
1878	Jannette	Chevisaunce	6	—	1
1879	Wheel of Fortune	Queen Bertha	4	6	3

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ST. LEGER.

Year.	Winner.	Dam of Winner.			
		Name.	Ran.		Won.
			2 years old.	3 years and upwards.	
1860	St. Albans	Bribery	7	9	8
1861	Caller Ou	Haricot	—	40	18
1862	The Marquis	Cinizelli	—	3	—
1863	Lord Clifden	The Slave	3	—	—
1864	Blair Athol.....	Blink Bonny	11	9	14
1865	Gladiateur	Miss Gladiator	—	4	—
1866	Lord Lyon.....	Paradigm	2	—	—
1867	Achievement	Paradigm	2	—	—
1868	Formosa.....	Eller	2	7	2
1869	Pero Gomez	Salamanca.....	4	3	1
1870	Hawthornden.....	Bonny Blink	2	—	—
1871	Hannah	Mentmore Lass	—	6	1
1872	Wenlock	Mineral	5	13	4
1873	Marie Stuart	Morgan la Faye.....	1	1	1
1874	Apology	Mandragora	—	—	—
1875	Craig Millar	Miss Roland	16	3	10
1876	Petrarch	Laura	5	4	2
1877	Silvio	Silverhair	3	8	3
1878	Jannette	Chevisaunce	6	—	1
1879	Rayon d'Or	Araucaria	—	7	1

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The foregoing tables show, that of these eighty-two (in 1868 the Two Thousand Guineas, and in 1876 the Oaks, resulted in a dead heat, the stakes in each case being divided) dams of the winners of these great races only eleven, or about 13 per cent., had not been on the Turf, and that of the remaining seventy-one tried mares only nineteen had not run as two year olds. Taking, moreover, into consideration that of the mares figuring in the English Stud Book and used for stud purposes, those without public trial are in an overwhelming majority against those which have been on the Turf, it cannot be denied that the chances of breeding a winner of one of the four classic races are incomparably better with the latter than with the former.

It is frequently laid down as a rule that, in order to benefit the breed of horses in general, no thoroughbred animal affected with hereditary defects ought to be used at the stud. It is but just that those who clamour for this condition—that is, the breeders of half-breds—should set the example, which, however, they frequently omit; and I myself should not object to adopt a similar principle for the thoroughbred. It depends only on what is understood by the term hereditary defects. I take weakness and infirmities of the constitution to be the most hereditary defects, and believe that the ideal station on which the thoroughbred would be enabled to fulfil its high mission can be reached only if no unsound mares are allowed to be used for stud purposes. The only practical test of soundness of limbs, digestive organs, nerves and temper, remains—until a more perfect system is discovered—the public trial on the racecourse.

A mare, which in her second and third year, when perfectly well and fit, is repeatedly brought out, and honestly perseveres, even if only with moderate success, may in all probability be looked upon as sound, and from such sound mares, if no misfortune intervenes, sound progeny may be

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expected. Exceptions to this, as to any other rule, of course do occur. So may we sometimes see mares, after standing the wear and tear of a Turf career without detriment to their constitution, in the end become unsound dams, that is, bring unsound foals or none at all; but in that case it is generally in consequence of being kept too long on the Turf; for mares like Alice Hawthorn and Beeswing, to race till their eighth and ninth year and then bring sound foals, adapted for racing, are rare exceptions indeed. I do not like to buy mares having remained on the Turf longer than, at the most, their fifth year.

The animal living in a primitive state, and acknowledging Dame Nature as the only authority with regard to its sexual instincts, satisfies the longing as soon as it makes itself felt. There is not much difference in our domestic animals, such as cattle, sheep, pigs; with them but a comparatively short time passes between the desire being awakened and appeased. In the young mare only that satisfaction is postponed from month to month, from year to year, until hysterics and similar disorders ultimately culminate in absolute sterility, consequences easy of comprehension, if it is taken into consideration that nature denied to the mare that salutary cleansing process, menstruation.

For this reason I prefer for stud purposes mares which during the period of training are never in use. I have frequently known such mares, of which on that very account fears of perfect uselessness for breeding purposes were entertained, on being sent to the stud, take the horse at the proper moment, be stinted the first or second time of covering, and retain this very valuable habit during the whole of their stud career.

I am well aware that it would be as difficult to carry out the exclusion from the stud of every untried or unsound

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mare, as it is to prevent others affected with visible defects or imperfections being used. I merely mean to say that the breeding from so many untried or unsound mares is the principal obstacle to the complete attainment by the thoroughbred horse of its ideal destination.

The buying of brood mares, if pursued not only with the possibility, but the probability also of success, is indeed no easy task. By deducting all mares which never showed any racing form, nor ever bred a winner, the sum of those remaining available will be reduced by 90 per cent. on those offered. This, however, by no means guards against bitter disappointment; and in order to insure the greatest possible safety in choosing from among the so reduced number, the intending purchaser will do well to pay particular attention to the following points:—

1. With young mares, to be careful that habitually they be neither too gross nor too poor; either extreme is inimical to a healthy progeny.
2. If dam and granddam have bred other winners, it will greatly enhance the value of the mare under inspection; the more superior, and especially sound, racehorses amongst her immediate relations the better. Is she, on the contrary, of a great number of brothers and sisters the only good performer, her acquisition will by no means be so desirable as at first sight her individual excellence seemed to warrant.
3. The peculiarities or weaknesses with regard to temper, organs of respiration and digestion, feet, bad habits, such as wind-sucking or crib-biting, nerves, &c., should be taken into account; likewise the strong or weak points which characterise the respective families must not be overlooked.

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4. Before buying mares which have already bred foals, one should be satisfied as to the state of the sheath. From outward signs of rupture or a blubbering noise in trot or canter, may be inferred rupture or extension in its internal parts. I cannot too energetically caution against the purchase of such a mare; she would be too dear at any price.
5. An examination of the udder should not be omitted, its development, and whether on both sides equally practicable. The state of nurture of the last foal will show what nourishment it received from its dam; in wholesome mother's milk frequently lies the decision of the whole question whether a foal will grow into a racehorse or become a miserable weakling. Insignificant foals frequently develop with incredible rapidity at foot of a dam with exceptionally good milk, as other mares will, season after season, throw magnificent foals, which during suckling time collapse and melt away like butter in the sun. It is advisable to take away from such dams the foals soon after they are dropped, and get nurses for them if they are to be had.*
6. It is better to abstain from purchasing mares which, according to the Stud Book, have repeatedly slipped their foals, frequently remained bārren, or bred twins.

* Particularly sensitive mares will not easily submit to the exchange, but with the necessary precaution and patience it generally succeeds. The mare knows her foal by the smell principally, as may be ascertained when collected in greater numbers. A little aniseed oil rubbed into the coats of the foals to be exchanged, for a few days, until the mares have got accustomed to it, prepares the deception. The mares are then removed from their boxes for a time sufficient to allow the pressure of the milk in the udder to become inconvenient, when, the foals being exchanged in the meantime, the mares are brought back, and the imposition is accomplished.

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7. The first requisite in a mare is, that she should be long, deep, and roomy, in order to afford the foal sufficient space for its development; leggy and short mares cannot be expected to throw big foals. Many imperfections may be overlooked rather than these two.
8. I do not like in a brood mare a too luxuriant growth of hair, nor, especially, tails full and bushy at the root. Foals from mares, and stallions, too, thus affected are generally wanting in energy and quality. A rat tail is a great eyesore; but how rare is a bad horse with a rat tail?
9. From a sharply-marked expression in muscles and limbs in every animal, from which it is intended to breed, may be inferred that its progeny will be similarly distinguished. The generic character, especially, must be unmistakably expressed in either sex. I dislike mares resembling in shape and manners stallions as much as I do entire horses, a minute inspection of which is necessary to convince one that they are not mares or geldings. The more quality the mare possesses, the more marked must be the expression of her sex. The charm of feminity, if I may say so, ought to pervade her whole appearance.

To enumerate every possible rock on which the purchaser of brood mares may get wrecked is almost impossible. It requires the practical eye of the breeder, experienced in all the difficulties besetting his calling, to detect them and to protect him from its danger.

I do not venture even approximately to determine at what age the brood mare attains the climax of her propagating power. The most celebrated of their kind exhibit

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in this respect the greatest varieties, although a certain distrust against the produce of very old mares may appear justified. But even here exceptions are not wanting: for instance, Araucaria, dam of Stephanotis, Wellingtonia, Catalpa, Camelia, Chamant, and Rayon d'Or, was bred in Pocahontas, her dam's, twenty-fifth year, whereas Pocahontas was Marpessa's first foal, the latter also being the first foal of Clare. On the other hand, it is surprising that of the winners of the four classic races few were first foals; of the Derby during a century only three—1795, Spread Eagle; 1852, Daniel o'Rourke; and 1855, Wild Dayrell. A singular fact, also, is that the Two Thousand Guineas in 1823 was won by one of twins, Nicolo, by Selim.

Of all the celebrated matrons in the Stud Book, Queen Mary and Haricot, her daughter, stand forth as descended from dams of the most tender age. The mare by Plenipotentiary out of Myrrha, by Whalebone, foaled in 1840, was covered when not more than two years old, and bred in 1843 the famous Queen Mary, who, after running but once as a two-year-old, was disabled by an accident. She was covered when three years of age, and bred in the year following Haricot. In those two mares, Queen Mary and her dam, early impregnation seems to have been attended with unusual individual potency.

In general, let the breeder of thoroughbreds never adopt the principle that quantity better than quality will succeed.

Breeding can be profitable only when in conjunction with the very best material obtainable, and when in the produce nothing is spared to contribute to success. Although a few isolated instances, like the late Mr. W. Blenkiron, of Middle Park and Waltham Cross, have of late years proved that wholesale production of the thoroughbred may pay, yet I am doubtful whether Mr. Blenkiron did not die at precisely the right moment, and whether, without the enormous

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prices realised after his death at the sale of his too numerous stud, the business would ever again have been able to show an equally favourable balance-sheet. Mr. Blenkiron was an unusually clever manager; he had closely studied and completely grasped the different phases of the thoroughbred market. On the one side breeding from a lot of untried mares, he at public auctions occasionally threw away, apparently without an object, large sums of money, but in reality in order to strengthen in the public the conviction that he was concentrating in Middle Park the quintessence of the English Stud Book, and to familiarise purchasers with the idea of the vastly enhanced value of the best class of its produce. The actual successes of the latter, independent of the prices realised at the sale, however, were, in comparison to the quantity, but moderate, and would, if all the horses bred by Mr. Blenkiron had been trained and raced for his own account, unquestionably have ended in his ruin.

As it is not likely that there will ever again be, in Europe at least, so large a breeding establishment as that sold at Middle Park in 1872, it may be in the interest of the history of the thoroughbred that the figures of that ever memorable sale be not lost in oblivion. I therefore recapitulate them in this place.

During six days in the months of June and July of that year, Messrs. Tattersall sold in the Middle Park Paddocks

Brood mares	198
Foals	119
Stallions (including Blair Athol for 12,500 gs., Breadalbane 6000 gs., Gladiateur 7000 gs.)	12
Yearlings	101
	430

for the sum of 130,704 sovs., or at an average of nearly 304 sovs.

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In half-breds the profit to be obtained from individual animals is narrowly limited. A numerical extension, therefore, may help to distribute the general expenditure over a greater number, and thereby reduce the average cost. In the thoroughbred, on the other hand, the value of a successful brood mare is almost illimitable, and repays manifold for years of fruitless labour. The late Mr. W. I'Anson grew rich by the sale of Queen Mary's sons and grandsons. Mr. Jackson paid him for Blair Athol alone, shortly before the St. Leger, consequently *after* the son of Blink Bonny had won for his breeder the Derby, not less than 7000*l.*; and Breadalbane, Broomielaw, Blinkhoolie, &c., also considerably swelled his receipts from the male line. With the female progeny of Queen Mary Mr. I'Anson founded a breeding stud, whose yearling produce, from nine to ten in number, realised at Doncaster, as late as 1880, an average of 900 gs.

What incalculable value is not represented by a mare like Pocahontas, whose direct descendants won the four classic races of England on no less than forty-five occasions! Pocahontas, bred 1837, reached the advanced age of thirty-three years; she bred fifteen foals, amongst which the stallions Stockwell, Rataplan, and King Tom, and, in a lesser degree, Knight of Kars and Knight of St. Patrick, shine as stars of the first magnitude. When twenty-five years of age, Pocahontas bred her last foal, Araucaria; and how potent remained in her that vital power with which she endowed her last offspring is shown by the achievements of the latter's progeny—Stephanotis, Wellingtonia, Camelia (winner of the Oaks), Chamant (winner of the Middle Park and Dewhurst Plates and the Two Thousand Guineas), and Rayon d'Or (winner of the St. Leger). Pocahontas founded a family of heroes, which ruled the Turf to an extent never equalled. Stockwell, himself a winner of the Two Thousand Guineas and the Leger, sired (besides three winners of the

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Blue Ribbon) six winners of the St. Leger, a number which has never been reached before or since.

It is highly interesting to follow the progeny of celebrated ancestresses in all its branches, with their winners or dams of winners, the issue of each generation, especially in the female line; the value of the stallions being, as a rule, more universally known.

Before spending a large sum of money for a brood mare, it will be well to construe a genealogical table of the strains of blood throughout the female side, as I have hereafter tried with regard to the Queen Mary and Miss Agnes families. Nothing is so appropriate to show at a glance whether the mare under consideration belongs to a great racing family, or whether such qualities were inherited, in solitary instances only, or not at all, on the side of the dam.

Queen Mary.

Bred 1843, by Gladiator, dam by Plenipotentiary out of Myrrha, by Whalebone out of Gift, by Gohanna.

Bred.	Name.	Ran.	Won.	Important Races.
	Sons.			
1850	BALROWNIE	10	3	Doncaster Stakes.
1853	BONNIE SCOTLAND	4	2	Doncaster Stakes.
1858	BONNYFIELD	...	...	Disabled, but sire of winners.
1862	BROOMIELAW	18	7	Dee Stakes. Chesterfield Cup.
1863	BERTIE	16	6	Dee Stakes.
1864	BLINKHOOLIE	21	9	Ascot Gold Vase. Alexandra Plate.
	Daughters.			
1847	I. HARICOT	40	17	
	Her Produce.			
1857	*a.* Cramond.....	21	3	
1858	*b.* Caller Ou	98	49	34 Queen's Plates. St. Leger. Twice Northumberland Plate. Brighton Cup. York Cup.
1867	Pandore	14	4	

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QUEEN MARY—*continued.*

Bred.	Name.	Ran.	Won.	Important Races.
	HARICOT—*continued.*			
1868	The Pearl.....	27	8	
1870	Poldoody	13	2	
1872	Periwinkle	11	3	
1878	Roysterer.....	13	2	Still running.
1864	*c.* Fabiola	...	...	
1870	King William ...	38	6	
1873	Titania.....	2	1	
1868	*d.* Lady Langden ...	6	...	
1872	Hampton	33	19	Epsom Gold Cup. Doncaster Cup. Northumberland Plate. Goodwood Cup. Goodwood Stakes.
1876	Sir Bevys	4	1	Derby.
1878	Fosyan.....	14	1	[cap.
1869	*e.* Freeman	37	9	Twice Great Northern Handi- Goodwood Stakes. Chesterfield Cup. Alexandra Plate.
1849	II. BRAXEY	50	15	
	Her Produce.			
1858	*a.* Bernice	51	8	
1862	*b.* Kate Hampton ...	7	...	
1868	Lady Mortimer	11	2	
1863	*c.* La Dauphine	24	3	
1865	*d.* Thrift	...	...	
1878	Tristran	37	18	Epsom Gold Cup. Ascot Gold Vase. Hardwicke Stakes. Champion Stakes. Grand Prix Deauville. Still running.
1879	Pursebearer	11	2	Still running.
1869	*e.* Ella	28	4	
1870	*f.* Miss Wingie	16	2	
1852	III. BLOOMING HEATHER	...	...	
	Her Produce.			
1858	*a.* Grouse.....	2	...	
1859	*b.* Gorse	21	2	
1872	Goura	17	3	Hertefeldt.
1873	Good Hope	5	3	Vienna Derby. Union Berlin.
1875	Blanc Hexe	12	2	
1876	Tyrann.....	17	5	Still running.
1877	Schlenderhan ...	6	2	Still running.
1878	Kaiser	3	3	Hertefeldt. Still running.

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QUEEN MARY—*continued.*

Bred.	Name.	Ran.	Won.	Important Races.
	BLOOMING HEATHER—*con.*			
1862	*c.* Maid Marian	5	1	
1869	King Tom colt	4	1	
1863	*d.* Robin Hood	11	2	
1867	*e.* Mahonia	15	3	
1874	Magnolia	9	1	
1869	*f.* Laburnum	22	3	and 5 Steeplechases.
1854	IV. BLINK BONNY	20	14	Derby.
	Her Produce.			Oaks.
1860	*a.* Borealis	21	6	
1868	Hyperion	25	5	
1869	Red Light.....	5	2	
1870	Blue Light	16	2	
1872	Flying Scotchman	9	1	
1873	Pier Light	3	1	
1861	*b.* Blair Athol	7	5	Derby.
				Leger.
1862	*c.* Breadalbane	27	8	Prince of Wales Stakes, Ascot.
				Gratwicke Stakes.
1857	V. BAB-AT-THE-BOWSTER ...	18	3	
	Her Produce.			
1870	*a.* Whymper	12	2	
1872	*b.* Mare by Adventurer	22	6	
1875	*c.* Mare by Knowsley	15	1	
1876	*d.* Lady Dixie	35	2	
1859	VI. BONNY BREAST-KNOT (in France).	10	1	
	Her Produce.			
1874	*a.* Sheldrake	32	5	
1860	VII. BONNY BELL	12	1	
	Her Produce,			
1867	*a.* Bonny Swell	17	3	
1869	*b.* Tocsin.....	9	3	
1871	*c.* Blantyre	9	2	
1874	*d.* Muscatel.....	23	3	
1875	*e.* Beauclerc	5	3	Middle Park Plate.
1866	VIII. BERTHA	7	1	
	Her Produce.			
1872	*a.* Brenda	47	21	
1873	*b.* Bridget	27	4	and over hurdles.

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Miss Agnes.

Bred 1850, by Birdcatcher out of Agnes (dam of Lady Agnes), by Clarion out of Annette (dam of Ambrose and Glenmasson), by Priam.

Bred.	Name.	Ran.	Won.	Important Races.
	Sons.			
1858	GOLDSEEKER.....	17	4	
1859	KING OF KARS	17	3	
1864	BISMARCK	46	13	
1869	LANDMARK.....	16	2	
1871	COURONNE DE FER	10	4	Hurstbourne Stakes. Stockbridge Cup.
	Daughters.			Hopeful Stakes.
1856	I. LITTLE AGNES.....	22	4	
	Her Produce.			
1861	*a.* Prince Arthur	13	6	
1862	*b.* Wild Agnes.....	37	14	
1869	Little Agnes.....	13	6	Prix de Diane.
1871	Fair Agnes	4	...	
1873	Wild Tommy ...	19	1	
1863	*c.* Fair Agnes (broken hip)	...	...	
1868	Bishopthorpe ...	68	16	
1870	Wild Aggie	21	9	
1871	Agglethorpe.....	67	12	
1872	Piercy	13	1	
1874	Constantine	41	5	
1877	Gildersbeck.....	41	8	Still running.
1878	Melmerby	23	2	Still running.
1879	Daffodil	5	1	
1864	*d.* Tibthorpe	44	11	Stewards' Cup.
1868	*e.* Merry Agnes	31	9	
1869	*f.* Little Heroine.....	25	2	
1870	*g.* Couleur de Rose...	17	3	
1871	*h.* Thirsk.....	16	4	
1875	*i.* Bonnie Agnes ...	7	2	
1878	*k.* Banbury Bun	9	1	
1857	II. BROWN AGNES	5	...	
	Her Produce.			
1862	*a.* Brown Bread	25	9	Northumberland Plate. Caledonian St. Leger.
1868	*b.* Andorka	35	6	Nemzeti.
1877	Armgard	18	7	
1869	*c.* Labancz	5	1	
1863	III. DARK AGNES (dead)	29	4	

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MISS AGNES—*continued,*

Bred.	Name.	Ran.	Won.	Important Races.
1865	IV. POLLY AGNES	...	...	
	Her Produce.			
1871	*a.* Lily Agnes	32	21	Northumberland Plate. York Cup. Doncaster Cup. Ebor Handicap.
1875	*b.* Tiger Lily	14	2	
1876	*c.* Jessy Agnes.....	13	6	
1867	V. FRIVOLITY	15	4	Althorp Park Stakes. Middle Park Plate.
	Her Produce.			
1874	*a.* Grand Templar ...	13	1	
1877	*b.* Miss Edwards.....	26	10	
1870	VI. WINDERMERE.....	3	1	
	Her Produce.			
1875	*a.* Ether	2	1	
1876	*b.* Bowness	17	5	
1877	*c.* Muncaster.	3	1	
1878	*d.* Westmoreland ...	4	1	Still running.

How far the exterior is to be considered in the choice of animals intended for the stud is an open question which causes much dispute, but which each breeder answers for himself, according to the aim he has in view.

Those who will not pay the cost of production of the thoroughbred, that is, who breed and use half-bred horses, insist on the power and regularity in make and shape of the latter; they forget, however, that the breeder of thoroughbreds can calculate to a fraction that selling his produce outside the racecourse by the standard of the exterior alone will not pay for its rearing, nor original cost and keep of the brood mares, covering fees, &c. If he had no other means of disposing advantageously of his produce, he would find himself placed in the alternative, either to breed from cheap, and, therefore, indifferent material, at a rate of expense not exceeding that of a half-bred stud, producing consequently inferior animals, never subjected

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to public trials, or to give up breeding altogether. Of the two, he would certainly do better to choose the latter; for, by following the former plan, he would find himself needlessly restricted in the choice of brood mares and sires, and, after all, produce animals, the only difference between which and half-breds would consist in inferior size and lack of substance.

He who would breed thoroughbreds on rational principles, and knows how to calculate, is forced to look for a better return for the capital invested than the every-day market affords. This he will find only on the racecourse, without which the production of thoroughbreds would be aimless, because it offers the only possible public trial on which the whole principle is based.

To sum up, I say:

The breeding of thoroughbreds to suit the ever-changing fashion as to exterior, without regard to highly tried capabilities, I look upon as an absurdity—in that case it would be preferable to turn one's attention to the better classes of the half-bred—but within the acknowledged best strains of blood I should by no means neglect, if only on patriotic grounds, the exterior, for in the production of our half-breds it has become an absolute necessity to use thoroughbred stallions, not only with performances of a high order, but also that our cavalry horses may answer certain conditions and forms about make and shape laid down in order to prevent their deterioration. The term of so-called faultlessness, however, is not to be taken in so strict a sense, when used in conjunction with the tried thoroughbred, as when applied to the untried half-bred.

In the former, every deviation from the true shape is rendered more distinct by the exertions inseparable from the training ground and the racecourse, and, by the tension or straining of the sinews, muscles and tendons, even

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develops into a visible defect. In the half-bred stallion the disposition to the same imperfection slumbers perhaps still nearer the surface, and would scarcely allow him to pride himself on his cheaply acquired freedom from blemish, if he were ever compelled to leave his *dolce far niente* and undergo severe trials.

My opinion as to the relative value of true shape and performances in the choice of a stallion to breed from, that is, what percentage of the one might be sacrificed to the other, may, not inaptly I believe, in figures be thus expressed:

I require in the sire, intended for the production of thoroughbreds, for every per cent. less performance three per cent. more exterior—the form, however, should never be less than good second class; for that of half-breds I reverse the proportion, and give for every per cent. exterior three per cent. performance. To breed racehorses from a stallion who himself did not belong to the first or second class on the turf is imprudent, for the instances of an inferior stallion producing a superior racehorse are of such very rare occurrence—this used to be tried, not without success, most frequently in France, but has latterly there also begun to bear bad fruit—that the numerous fruitless experiments which must be made before that one is found would in all likelihood swallow a fortune.

Now, taken into consideration that England, for instance, produces every year a thousand thoroughbred colts, and of that number not more than one or two develop into racehorses of the first class, and perhaps two or three of a second class, good enough to breed thoroughbreds from; considered further, how lenient the English breeder is with regard to certain imperfections of shape which, in Germany, would condemn the horse at once, and that, on the other hand, the, in England, acknowledged very best stallions are

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scarcely ever for sale, it may be readily understood how difficult it is to acquire a stallion of the first class adapted to the production of thoroughbreds, and if first rate form and undeniable pedigree be strictly adhered to, how necessary it is sometimes to be more indulgent with regard to the exterior than under other circumstances inclination would admit.

Our German public knows nought of such difficulties, and requires that the thoroughbred stallion of the first class, besides form and quality, be possessed of the power and truth of shape of the half-bred, and the action of the Arab. The good people forget that everything in the world has its limits, and that Nature herself is impotent, when asked to produce an animal of the strength of the elephant with the agility of the gazelle.

It is difficult and requires much local knowledge to buy sound mares of the best strains of blood and some public form or proved excellence at the stud, yet is their number not nearly so narrowly limited as that of sires. It is therefore advisable, in the choice of mares, to be more rigorous with regard to make and shape, else the thoroughbred will scarcely fulfil its mission—the production of capable half-bred stallions, answering the conditions which the breeders of such and of cavalry horses are justified in making.

The realisation of this purpose by judicious mating of sire and dam is materially facilitated, if the breeder is not only familiar with the peculiarities of the families from which they are descended, but also has known them during their racing career. The impression received on the race-course of the horse in the height of condition is with greater truth reflected in its immediate descendants, than that which is derived from the same animal when at the stud. In the former case nothing is hidden by superfluous flesh, and every imperfection of shape is rendered more

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conspicuous, when every muscle, sinew, and tendon is braced by hard work.

It may, perhaps, not be out of place here to express my views on the, of late years, steadily increasing disorder of roaring.

I have observed that in the English thoroughbred the growth of this defect has kept pace with the increase of two-year-old racing, especially in early spring, and consequent thereon with the increase of studs breeding for sale.

This may appear strange, but is easily explained. Racing at so tender an age requires early developed yearlings; those studs, however, can flourish only when keeping that requisite in view, for experience teaches that a yearling which promises to win back his purchase-money within eight or ten months, will command a much higher price than one whose usefulness will probably not begin before his third year. The consequence is that they force their produce like asparagus in a hot-bed, in order to bring them up for sale as big as it is possible to get them. Such only find ready customers, and the assumption by a discriminating public, that all such breeders act on the same principle, more especially those who affirm the contrary, totally depreciates the less developed yearlings, for the purchaser believes—and generally his surmise is not without justification—that with them also the forcing process has been tried, but tried in vain. Thus, every stud owner breeding for sale is compelled to adopt the pernicious practice, and, in the end, the home breeder will have to follow the fashion.

That to yearlings, unnaturally forced in their development, the early training brings more danger than to those reared in a natural, and, therefore, more healthy manner—hence smaller and less gross—is self-evident. Their puffed-out organs of respiration especially are affected by the keen

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atmosphere in autumn and winter, during which their first training takes place, and, consequently, rendered more prone to inflammation. If the constitutional weakness, from which originates the inclination to morbid affections of the respiratory organs through irrational rearing is continued from generation to generation, the predisposition to roaring ultimately becomes hereditary.

Most frequent, naturally, are these symptoms of disorder in descendants from stallions from whom they inherit the attribute of quick growth, for they are the first taken into training.

It is equally natural that young horses with long necks turn roarers sooner than short-necked ones; for if through each of two tubes of the same width, but of different length, a certain quantity of air shall pass in exactly the same space of time, it follows with mathematical certainty that, in the longer tube, the current must be forced through at a quicker rate, and, consequently, affect the sides and valves in a higher degree than in the shorter. It is, moreover, a well-known fact in human physiology, that long necks incline more to diseases of the larynx than others.

English breeders do not, however, on account of the predominating number of short races which may be won by a roarer, hesitate to use stallions thus afflicted at the stud. I believe that, if the system were changed, two-year-old racing abolished, and the distances to be run over generally lengthened, throat diseases would gradually diminish, though not at the same ratio in which they have for the last thirty years increased.

I am, however, no advocate of so radical a measure as the abolishment of two-year-old races, which for many reasons could not be carried out without any detriment to racing at large; I am only at a loss how to check in any other way the fattening process yearlings are forced to

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undergo, and the too early and too frequent racing of two-year-olds.

It will, no doubt, be argued, that there are many roarers to be found in France, although in that country two-year-olds do not run before the 1st of August, and the distances in races for horses above that age are twice as long as in England. It is true there are a good many roarers in France *now*, but the disease was imported from England, and has spread with the greatly enhanced prices of yearlings, caused by the vast increase in the demand for racing material.

Based on and caused by the rapid growth of racing in France, a great number of studs, principally breeding for the yearlings market, have sprung into existence, carrying on wholesale production by means of unsound mares, imported from England by the dozen at 50*l.* a piece and even less. Twenty years ago there were scarcely any roarers in France, but also no studs breeding for sale.

I am well aware that at present many public breeders may point to certain private studs, producing as many roarers as themselves or more. But I think this does not much shake my argument. No doubt a certain number of select studs breeding first-class yearlings for sale, as for instance the Blankney stud and some others, contribute just as much to the improvement of the breed as the best private studs; but what I mean to say is, that the overgrowth of public studs, in comparison to home breeding, softens the thoroughbred race, through using too much weak, unsound, and altogether inferior material for the reproduction, and through forcing the foals too much with a view to the yearling market.

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CHAPTER II.

IN-BREEDING—OUT-CROSSING.

I HAVE promised elsewhere to explain my views on the advantages or disadvantages of in-breeding with regard to the breed of racehorses, and will now proceed to do so. It is much to be regretted that our writers on zoology have not, instead of sheep, pigs, cattle, or cart horses, chosen the thoroughbred horse as the basis of their investigations in that direction.

According to my idea, no species of animal creation is so specially adapted for that purpose, for here incontestable facts and the accumulated statistics of the racing calendar collected during a space of more than one hundred and seventy years, are available as incontrovertible evidence, whereas in the breeding spheres selected and treated on by the zoologists, much must naturally depend on personal opinion, unreliable information, statements copied from other authors, or similar unsupported assertions.

The origin of the English thoroughbred is carried back to three Oriental ancestors, viz., the Byerly Turk, the Darley Arabian, and the Godolphin Arabian. It is a universally recognised maxim to count all living stud horses as belonging to those families from which they descend in a direct male line, the maternal descent being a matter of secondary consideration. It is manifest that this classification should not in all cases be a criterion, for a horse may have in its veins, through the dams, double the quantity of blood from their families to that which is derived from

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the male descent of its sire, and yet is considered to belong to the family of the latter.

If, however, the object is to gain a general view of the whole breed, and especially of those families which in course of time have proved most successful, and to follow up their origin to the beginning of the last century, nothing remains but to classify them according to their male ancestors, the female descent offering not nearly so clear a perspective.

In order to afford a more comprehensive view of the whole subject, I have, as a special supplement, added thirteen tables, of which the first three reach to the middle of the nineteenth century, and the following ten show the progeny of those stallions whose male descendants at the present time rank foremost at the stud, and appear destined in coming generations to form the corner-stones of the race. As such they will probably suffice future breeders as points of departure in the framing of pedigrees.

These compilations show that the family of the Darley Arabian, or rather that of Eclipse, largely predominates, especially in England, over the other two.

The family which claims the Byerly Turk for its ancestor, with his three great descendants, Wild Dayrell, The Flying Dutchman, and Partisan, at present exercises less influence on the breed in England than in other countries.

Wild Dayrell's most eminent son, Buccaneer, was carried off to Hungary after having produced in England, besides several prominent mares—amongst them two winners of the Oaks—only Paul Jones and See Saw. Hungary in her turn, however, had to witness the expatriation of Buccaneer's most celebrated scion, Kisber, to the land of his ancestors.

The Flying Dutchman went to France and there got

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his two best sons, Dollar and Dutch Skater, of which two the latter, at present serving at the stud in England, seems to be the less valuable, since, with the exception of Insulaire and Dutch Oven, he has, as yet, produced nothing of note.

Partisan's most famous son, Gladiator, also fell to the share of France, where he got a great number of excellent mares—amongst others Gladiateur's dam, and, especially through founding the Fitz Gladiator family, acquired lasting merit. Fortunately for England he bequeathed to her in Sweetmeat a pillar of the breed, and in Queen Mary—the dam of Haricot, Blooming Heather, Blink Bonny—the mother of a family of heroes.

Besides these England has kept nothing prominent of Partisan's progeny; neither Kingston, nor his two most noteworthy sons, Ely and Caractacus, having realised at the stud what they promised on the turf. The Derby winner of 1862 was later on exported to Russia.

Glaucus's line is represented by The Nabob's sons only, of which England possessed Nutbourne alone; while France got Suzerain and Vermout, with his sons, Boïard and Perplexe, and Austria, Bois Roussel. America, too, has owned in a lineal descendant from the Byerly Turk, Lexington, one of her most successful sires.

The Godolphin Arabian in our days is, properly speaking, represented by the Melbourne family alone, and in England threatens to become extinct in his male descendants. The most successful stallion of that clan living seems to be Ruy Blas; but this son of West Australian is in France, whither the first winner of that great treble event—or triple crown as it is called—Two Thousand Guineas, Derby, and St. Leger was exported. It may yet be that Knight of the Garter, Plebeian, or Statesman rouse themselves, and after all give to England a first-class sire of that strain of blood. For the first of the three it was, perhaps, unfortunate that

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The Jewel, in foal to him, was sent abroad; yet it is questionable whether Przedswit, with his doubtful pluck, would in England have become of sufficient note to induce the breeding public to send him really good mares. The Earl, Mornington, Pell Mell, Strafford, and the brother to Strafford, appear scarcely destined to continue in coming centuries the Melbourne family.

It is a remarkable fact, that the Melbourne blood in its female descent shows to so much greater advantage than in the other sex, for which reason the family is so inadequately represented in the stallions belonging to it. In the whole stud book there is scarcely to be found a sire of better, and in their progeny more successful, mares than Melbourne (Blink Bonny, Blooming Heather, Canezou, Go-ahead, Leila, Mentmore Lass, The Slave, Stolen Moments, Sortie, The Bloomer, &c.); but of his sons, West Australian alone achieved a great reputation. With regard to him also, this superiority of the female descent holds good, as he got, besides a great number of more than useful mares, only two prominent sons, The Wizard and Ruy Blas, of whom the former, although himself a good racehorse, scarcely left any traces in Germany, the country of his adoption.

Now if we consider the question, what sort of crosses in the different strains of blood have recommended themselves as most desirable—although within the thoroughbred race there cannot, properly speaking, be any question of a cross, as understood in zoology, because the whole breed is more or less related—we naturally come to the conclusion that the breeder is involuntarily forced into breeding within close relationship by the endeavour to adhere to the families of established reputation, and within them to use for his purpose none but their most prominent members. In the commencement of the race we notice

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numerous cases of incest, logically accounted for, however, by the desire to mate the then existing and not too numerous individuals of tried excellence, and thereby perpetuate that quality. In the pedigree of Eclipse (1)* even occurs a glaring instance of incest, the grand-dam of Betty Leedes, who was the great grand-dam of Eclipse, having been got by Spanker from his own dam. The more the breed developed, the less pressing grew the necessity for close relationship, but in the days of Eclipse, bred in 1764, and his immediate descendants, the need still existed to a great extent, for by the general stud book a score of horses may be proved to have been got by sons of Eclipse from daughters of the same horse, but this alliance never produced anything extraordinary. Even in the present century many cases of incestuous breeding have occurred, but very few of them have proved successful. I shall have to make some remarks on two of their number (Juliana, bred 1810, and Valentine, bred 1832) later on.

Opinions as to whether relationship in parents is advantageous, and, if so, to what degree and where it begins to be injurious, differ very much even in our own days in England.

The thoroughbred is, with regard to this subtle question, especially adapted as a field for study and experiment, because the uninterrupted trials of the produce of this or that principle in breeding are made in public, and their results, as collected in the racing statistics of one hundred and seventy years, accessible to everybody. The inference drawn will, however, frequently prove the reverse of what follows from the same investigations, when applied to the untried half-bred, where the analysis of the calculation is based on the personal opinion of the investigator.

* The figures in parenthesis denote the number of the pedigree in the appendix.

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If we take, for instance, the pedigree of Friponnier (3), we find that he is the produce of uncle and niece, consequently of very close in-breeding. Friponnier, although the fastest horse of his day, proved himself a failure as a sire of racehorses, because he wanted the individual power to transfer his racing qualities to his descendants. He is, therefore, quoted as a warning example of too close in-breeding in thoroughbreds. He then was sent to a half-bred stud in Germany, and there has unquestionably proved a great success. Writers on zoology, unfamiliar with the thoroughbred and its public trials, will therefore probably quote Friponnier as a brilliant example of that very same close relationship in the parents, on account of which he was in the first instance discarded.

But, before we enter more deeply into this matter, it is necessary to come to a clear understanding as to the meaning, with regard to the thoroughbred, of the terms: *in-breeding*, *moderate relationship*, and *out-crossing*. If they are not clearly defined, all real discussion is rendered futile. Stonehenge's disquisitions on the subject are indistinct, because not worked out on a firmly established system. If he instances Stockwell (66) and Rataplan (66) as in-bred, but Partisan (56) and Emilius (20) as out-crossed, he overlooks, that those celebrated brothers are doubly and trebly as far removed from their common ancestor on the male and female side, as the latter two from theirs. This proportion is by no means altered by the circumstance, that in Stockwell and Rataplan's pedigree Waxy occurs not twice, but three times; for even then they have only $\frac{3}{32}$ Waxy blood in their veins, whereas Partisan has $\frac{8}{32}$ and Emilius $\frac{1}{8} + \frac{1}{16} = \frac{6}{32}$ Highflyer blood.

I am of opinion, that a horse should only be termed *in-bred*, when in sum total, less than four degrees lay between its parents and their common ancestor; in other

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words, when the children or grandchildren of a stallion or a mare are mated, I call their produce *in-bred;* but this term does not apply to the produce of great grandchildren of the common ancestor. We must not forget that in the pedigrees of horses the word brother or sister often means half-brother or half-sister, and that here the definition borrowed from the human family connection is not applicable.

As breeding within *moderate relationship* I reckon the mating of stallion and mare that are removed from their common ancestor four, five, or six degrees. It is indifferent whether they are on both sides equidistant from, or one of them nearer to the male or female progenitor than the other.

The English breeder of the old school was of opinion, that breeding from very closely related parents, even if possessed of the most excellent qualities, as a rule, led to disappointing results; in isolated cases, however, to the production of individual animals of quite extraordinary capabilities; and on the whole, I incline to that view myself.

More recently and in consideration of such exceptional instances, especially since Friponnier's appearance, the mating of very nearly connected stallions and mares has frequently been tried in England, but generally with the old result, that is, abundant failures, but also a few eminent exceptions, like Galopin and Petrarch.

As a matter of course follows the important question as to the individual productive power of such in-bred stallions. The current which in England set in the direction of in-breeding, naturally caused a strong counter-current, in its turn in many cases rejecting for breeding purposes, as in-bred, stallions that, in my opinion, come not within the meaning of the term.

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In order to gain a clear insight into the matter, let us classify the stallions renowned on the turf and afterwards used for stud purposes, according to the degree of relationship existing between their parents; and then inquire which degree has furnished the best results as to power of reproduction.

I believe myself to be tolerably at home in the Racing Calendar and the Stud Book, yet it is possible I may have overlooked some pertinent instances. If so, I shall be glad if by the following compilations others interested in the subject be stimulated, in furtherance of the good cause we serve, to supplement or to refute what I have written.

A produce of brother and sister, or half-brother and half-sister not being available amongst renowned stallions, I shall begin with those whose parents are only *one* clear degree removed from their common ancestor, male or female. Of such I have been able to find but four, viz.:

1. Knight of St. George (2)... in-bred to Sir Hercules.
2. Orest (4) ..... „ Touchstone.
3. Friponnier (3) ..... „ Orlando.
4. The Miner (5) ..... „ Birdcatcher.

Two degrees removed are the parents of

1. Partisan (56)..... in-bred to Highflyer.
2. Priam (7) ..... „ Whiskey.
3. Humphrey Clinker (9)..... „ Sir Peter.
4. Election (78)..... „ Herod.
5. The Saddler (10) ..... „ Waxy.
6. Sleight of Hand (13)
7. The Drone (13) } Own brothers } „ Peruvian.
8. Van Amburgh (13)
9. Pericles (11)* ..... „ Highflyer.
10. Brutandorf (39)..... „ Pot-8-os.
11. Blue Gown (8) ..... „ Touchstone.
12. Galopin (12)..... „ Voltaire.
13. Lowlander (15)..... „ Pantaloon.
14. Petrarch (14)..... „ Touchstone.

* Pericles has 4-16ths each of Highflyer and Herod blood.

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Three degrees removed are the parents of

1.	Orlando (44)	in-bred to	Selim.
2.	The Flying Dutchman (19)	„	Selim.
3.	Emilius (20)	„	Highflyer.
4.	Weatherbit (18)	„	Orville.
5.	Buccaneer (22)	„	Edmund by Orville.
6.	Tramp (21)	„	Eclipse.
7.	Blacklock (37)	„	Highflyer.
8.	Epirus (58)	„	Sir Peter.
9.	Cotherstone (28)	„	Waxy and Penelope.
10.	Chatham (16)	„	Waxy and Penelope.
11.	Oulston (24)	„	Cervantes.
12.	Elthiron (25)		
13.	Windhound (25)	Own brothers	Peruvian.
14.	Hobbie Noble (25)		
15.	The Reiver (25)		
16.	Argonaut (31)	„	Sir Hercules.
17.	Macgregor (30)	„	Banter.
18.	Knight of the Garter (48)	„	Camel.
19.	Pero Gomez (101)	„	Lady Moore Carew.
20.	Dalham (29)*	„	Touchstone.
21.	Isonomy (26)	„	Birdcatcher.
22.	Silvio (27)	„	Birdcatcher.

Four degrees removed are the parents of

1.	Sweetmeat (32) †	... on both sides goes back to		Prunella.
2.	The Baron (33)	„	„	Waxy.
3.	Bay Middleton (34)	„	„	Sir Peter.
4.	Sultan (35)	„	„	Eclipse and Highflyer.
5.	Pantaloon (36)	„	„	Eclipse and Highflyer.
6.	Lanercost (38)	„	„	Gohanna.
7.	Plenipotentiary (55)	„	„	Sir Peter.‡
8.	Melbourne (9)	„	„	Termagant.
9.	Flatcatcher (40) (Bro. to Phryne)	„	„	Waxy.
10.	Wild Dayrell (41)	„	„	Selim.
11.	Cambuscan (42)	„	„	Whalebone.

* Dalham's dam (Gertrude) also is three times removed from Touchstone, so that 1-32nd of the same blood must be added.

† Sweetmeat's pedigree is doubtful, inasmuch as his dam Lollypop is put down to two sires. She is, however, generally believed to be, not by Voltaire, but by Starch.

‡ To whose sire, Highflyer, both parents of Plenipotentiary, Emilius and Harriet are in-bred.

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12.	The Palmer (43) } Own		on both sides	go back to Priam.
13.	Rosicrucian (43) } brothers			
14.	Trumpeter (44)*.....	,,	goes	Selim.
15.	Marsyas (45)	,,	,,	Waxy.
16.	Economist (46)	,,	,,	Eclipse and Herod.
17.	Sir Hercules (47).....	,,	,,	Eclipse.
18.	Liverpool (38)	,,	,,	Eclipse.
19.	Adventurer (81)	,,	,,	Orville.
20.	Hermit (75).....	,,	,,	Camel.
21.	Przedswit (48)	,,	,,	Marpessa.

Five degrees removed are the parents of

1.	Touchstone (49)	on both sides	goes back to	Eclipse.
2.	Voltaire (50).....	,,	,,	Highflyer.†
3.	Voltigeur (50) } ‡	... ,,	go	Hambletonian.
4.	Barnton (50) }			
5.	Newminster (93)	,,	goes	Trumpator and Beningbro'.
6.	Van Tromp (51).....	,,	,,	Buzzard.
7.	Defence (52)	,,	,,	Eclipse and Highflyer.
8.	Alarm (6).....	,,	,,	Sir Peter and Prunella.
9.	Ion (41)	,,	,,	Sir Peter.
10.	King Tom (79)	,,	,,	Waxy.
11.	Saunterer (53)	,,	,,	Waxy and Penelope.
12.	Paragone (67)	,,	,,	Orville.
13.	Andover (54)§.....	,,	,,	Buzzard and Waxy.
14.	Venison (56)	,,	,,	Eclipse.
15.	Velocipede (56)	,,	,,	Pot-8-os and Highflyer.
16.	Pyrrhus the First (58)	,,	,,	Buzzard.
17.	Harkaway (46).....	,,	,,	Pot-8-os.
18.	Cowl (59).....	,,	,,	Whiskey.
19.	Cossack (103)	,,	,,	Sorcerer, Stamford, and Y. Giantess.

* His sire, Orlando, already being in-bred to the same horse, Trumpeter has five-thirty-seconds Selim blood.

† To whom Voltaire's sire, Blacklock, is in-bred.

‡ Own brothers and sons of the foregoing. The third brother, Vortex, was too inferior a racehorse to be mentioned here.

§ His dam being in-bred to Waxy, Andover has only three-thirty-seconds Buzzard blood, but four-thirty-seconds Waxy blood.

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20.	Kingston (60)	on both sides goes back to		Sir Peter.
21.	Scottish Chief (99) ...	„	„	Orville.
22.	Flibustier (22).....	„	„	Tramp.
23.	Sterling (61)	„	„	Whalebone.
24.	Chamant (63)	„	„	Emilius.
25.	Robert the Devil (64)	„	„	Touchstone and Birdcatcher.

Six degrees removed are the parents of

1.	Irish Birdcatcher (53)	on both sides goes back to		Eclipse.
2.	West Australian (65)	„	„	Trumpator.
3. 4.	Stockwell (66) / Rataplan (66) (Own brothers)	„	„	Waxy and Penelope.
5. 6.	St. Albans (68) / Savernake (68) (Own brothers)	„	„	Whalebone.
7.	Macaroni (69)	„	„	Sir Peter.
8.	The Duke (70)	„	„	Whalebone.*
9.	Lord Lyon (72)	„	„	Whalebone.
10. 11.	Blair Athol (71) / Breadalbane (71) (Own brothers)	„	„	Whalebone.
12.	Favonius (74)	„	„	Whisker.
13.	Rustic (82)	„	„	Whalebone.
14.	Lambton (102)	„	„	Whiskey.
15.	Ely (104).....	„	„	Sorcerer.
16.	Wenlock (100)	„	„	Whalebone.
17.	Kisber (76)	„	„	Sultan.
18.	Lollypop (73)	„	„	Whalebone.

The stallions of high importance to the breed, left after the enumeration of the foregoing six categories, that is, whose parents are distant from the common ancestor more than six degrees, are, on closer inspection, comparatively few in number, and of those remaining many, as, for instance, Lord Clifden (77), Teddington (78), See Saw (105), George Frederick (80), Albert Victor (80), &c., cannot, in the descent of their parents, show more than seven clear removes. It follows, therefore, that nearly all stallions of eminence in England, which in this case means the whole of Europe, are the results of breeding within more or less distant relationship. The aim of our investi-

* To whom The Duke's dam also on both sides traces back.

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gations will thus be less to ascertain whether relationship in breeding be at all desirable, than to define the limits within which it operates advantageously.

We shall be materially assisted in the attainment of our purpose by subjecting, in their several categories, the stallions named to an impartial critic, although I cannot disguise from myself the difficulty of doing so without meeting with opposition to my estimation of their relative worth.

Of the four stallions in the *first category*, we know that Friponnier at the stud did not realise the expectations entertained of him. The St. Leger winner, Knight of St. George's best performance as a sire was the getting of Knight of St. Patrick with a mare like Pocahontas, whose produce with many other stallions with whom she was mated proved to be superior to him. Knight of St. George was subsequently sold to America, where he was not more fortunate than at home. Orest, in consequence of an accident, never trod the turf; his class as a racehorse, therefore, cannot be determined. He got, however, a number of horses of a certain amount of medium racing form, and may, in consideration thereof, be classed as a successful sire. The Miner, Blair Athol's whilom conqueror at York, turned out rather insignificant at the stud, his paternity to Controversy being doubtful.

The *second category* is composed of fourteen stallions, amongst whom Partisan, as sire of Gladiator, Venison, and Glaucus, stands forth in such bold relief, that his value as a progenitor is above question.

Priam, even if he left no immediate male descendant of eminence, as sire of Crucifix and such useful matrons as Miss Letty, Annette, Dolphin, &c., deserves to be rated as a successful stallion.

Humphrey Clinker's claims to recognition principally

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rest on his paternity to Melbourne, but in consideration of the latter's worth, his merits must be deemed sufficient.

The Saddler and Brutandorf are of about equal value; the former's pretensions are, in a measure, justified by The Provost, while the latter's are based on Physician, whose sons, The Cure, and especially Blackdrop, merited the esteem in which they were held; the latter in Germany.

Election can scarcely be said to rank very high as a progenitor, nor has Sleight of Hand sired any racehorse of the first class. His paternity to several good mares, like Lady Elizabeth (dam of Stolen Moments), Legerdemain (dam of Adonis and Wimbledon) alone, does not entitle him to be ranked amongst the successful sires, and still less do his two full brothers, The Drone and Van Amburgh, deserve a place in that select company.

Pericles' solitary claim to consideration consists in having got Harriet (Plenipotentiary's dam), but that is not sufficient.

Blue Gown's career as a sire cannot be said quite finished, since, although himself at the bottom of the sea, his last direct descendants have not yet appeared on the turf. Of his sons, Vitus and Blue Rock, good performers in Germany, should be mentioned; on the whole, however, I believe, by discarding him from the list of shining lights at the stud, I express the opinion of English breeders and owners of racehorses.

Galopin, Lowlander, and Petrarch are still on their trial; I shall follow their stud career, as being of paramount interest with regard to the question of in-breeding, with the greatest attention.

The *third category* contains twenty-two stallions, of whom Orlando, The Flying Dutchman, Emilius, Weatherbit, Buccaneer, Blacklock, and Tramp, may be said to be of indisputable pre-eminence.

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Epirus, although supported by Ephesus and the Derby winner Pyrrhus the First only, will, on their account, pass muster; likewise Pero Gomez, who, as sire of Peregrine, winner of the Two Thousand Guineas, and a great number of other useful horses, deserves credit.

Knight of the Garter, albeit for the present not largely patronised, must, as the sire of Przedswit and many very serviceable horses, be reckoned as a successful stallion.

Of the four, although not very famous brothers: Windhound, Elthiron, Hobbie Noble, and The Reiver, the first, as the probable father of the Derby winner Thormanby, is entitled to a certain amount of recognition; the second has made himself in France, if not celebrated, at least useful; the last two, however, are decided failures.

Cotherstone, Chatham, Oulston, and Argonaut have not attained eminence at the stud, which is the more surprising with regard to Cotherstone, the winner of the Two Thousand Guineas and the Derby in 1843, as he was one of the most successful racehorses that ever trod the turf.

Macgregor appears to be unable to produce a horse of note.

Dalham, Isonomy, and Silvio are still in the commencement of their stud career; Isonomy, however, possessed such exceptional merit as a racehorse, that of his future the highest expectations seem justified.

The *fourth category* embraces twenty-one stallions, to whom no exception can be taken on the score of shortcomings at the stud, though perhaps Plenipotentiary's name may have a better sound than in reality it deserves.

Economist's chances were but few, yet as Harkaway's sire he has just claims to our respect.

Lanercost (sire of Van Tromp) and Flatcatcher have produced a great number of good mares; to the others no

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objections will, presumably, be raised; their names speak for themselves.

Przedswit alone has as yet had no opportunity to prove himself in his progeny. It may be urged against him, that he is the only horse of note his dam ever produced, yet his descent on both sides from that inexhaustible source of excellence, Marpessa, through two such brilliant channels as Pocahontas and Boarding School Miss, should justify great expectations.

In the *fifth category* there are twenty-five stallions, of whom Chamant and Robert the Devil are too young at the stud to be fairly judged. Of the other twenty-three I can point to Cossack and Andover alone as decided failures, even if the latter produced some useful animals like Cramon. It did not, however, require much individual power on the part of the stallion, when mated with a mare like Haricot. Nor has Barnton, although the sire of Fandango and Ben Webster, on the whole, been of much use at the stud, for which reason I hesitate to place him on the list of successful sires.

In England, Van Tromp has not made for himself a great name, he has, however, done better in Russia.

Venison has produced Alarm and Kingston. Paragone is difficult to classify, but his daughter, Paradigm (dam of Lord Lyon and Achievement), and the success he had in Germany, secure him an honourable place.

Defence, Pyrrhus the First, and Cowl have made their mark by producing good brood mares, and Alarm, though not having sired any very prominent horses, got many useful animals. The rest, viz., Touchstone, Melbourne, Voltaire, Voltigeur, Ion, Saunterer, Newminster, Velocipede, Harkaway, Kingston, Scottish Chief, Flibustier, and Sterling, are above discussion.

The *sixth and last category* comprises eighteen stallions,

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of whom Kisber and Lollypop have been too recently transferred to the stud to allow of their merits as stallions being considered.

The reputations of The Duke (sire of Bertram, and consequently grandsire of Robert the Devil), Lord Lyon, Favonius, and Wenlock, may not be sufficiently established, yet should I let three of their number pass as successful.

Breadalbane gets handsome horses; his stock, however, with few exceptions, suffer from too great an excitability of temper to bear severe training. To produce racehorses I should, therefore, not rank him amongst the sires with incontestable claims to recognition.

Ely is a dead failure at the stud; the rest, viz., Bird-catcher, West Australian, Stockwell, Rataplan, Savernake, St. Albans, Macaroni, Blair Athol, and Lambton must be accepted as of undoubted excellence, a certificate of merit I should like to extend to Rustic, in consideration of the manner in which he has availed himself of the few chances offered him.

By summing up the foregoing remarks in shape of a comparative table of the successful stallions in their several categories, we arrive at the following result:

Category.	Number of Stallions in same.	Successful.	Too Young at the Stud.
With parents one degree removed	4	1(?)	—
,, ,, two degrees ,, ...	14	4	3
,, ,, three ,, ,, ...	22	12(?)	3
,, ,, four ,, ,, ...	21	20	1
,, ,, five ,, ,, ...	25	20	2
,, ,, six ,, ,, ...	18	13	2

The proportion, accordingly, appears most favourable in the fourth, and, next to it, about equal in the fifth and

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sixth categories; on the whole, therefore, in those three, embracing the produces of moderate relationship; and thence, in the direction of in-breeding, gradually but strikingly lessening. It will, besides, be well to bear in mind that in the third category of the twelve stallions classed as successful, several, like Elthiron and Windhound, are rather doubtful.

From all this it would seem advisable to place most reliance on those stallions, who, *cæteris paribus*, are descended from parents of moderate relationship; at the same time to be mindful, however, whether in former generations of their pedigree the same strains of blood have already met, in which case the in-breeding would thereby be increased. We thus arrive at the conclusion, that stallions of that degree of affinity in their parents, perhaps with the addition of a category with seven clear removes, are preferable to those who are in-bred or outcrossed. I, at least, should be at a loss to furnish from all the remaining stallions in the stud book, so stately a list as is comprised in the fourth, fifth, and sixth categories. That the degree of relationship alone is insufficient, when kindred strains of blood are united for the purpose of begetting high individual potency, is self-evident; that end can only be attained by using within the chosen families their most prominent members.

Almost insurmountable difficulties would be encountered in the attempt to compile similar tables for mares; their number is too great to admit of the possibility of arriving at anything like reliable comparative figures. We must, therefore, confine ourselves to a review of the celebrated matrons and see, whether among them exist many cases of in-breeding, or whether in their sex also the value for stud purposes appears impaired by too close a relationship of their parents.

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Of mares that owe their existence to *incestuous* breeding, I could find but two that have proved at all successful at the stud, that is to say, have bred winners of big races, viz.:

1. Juliana (23), dam of the St. Leger winner Matilda, bred 1810, by Gohanna from Platina, both being by Mercury, son of Eclipse. What renders this case still more remarkable is, that both parents of Juliana were out of Herod mares, consequently nearly own brother and sister.
2. Valentine (106), dam of the Doncaster Cup winner War Eagle, bred 1832, by Voltaire with his half sister Fisher Lass, both being out of the same mare, bred 1816, by Phantom out of an Overton mare.

Of celebrated mares, whose parents were altogether not more than *once* removed from their common ancestor, we notice six:

1. Miss Letty (18), daughter of Priam, who is strongly in-bred to Whiskey; herself in-bred to Orville (dam of Weatherbit).
2. Knowsley's (94) and General Peel's dam, in-bred to Camel.
3. Palma (81), in-bred to Orville (dam of Adventurer).
4. The Jewel (48), in-bred to Birdcatcher (dam of Przedswit).
5. Mandragora (5), in-bred to Birdcatcher (dam of Mandrake, Agility, Apology, &c.).
6. Mineral (5), own sister to the foregoing (dam of Wenlock, Schwindler, Kisbér).

The extraordinary success at the stud of Mandragora and Mineral is the more noteworthy, as their own brother,

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The Miner, although himself a much better racehorse, has been of little use as a sire.

With parents, *twice* removed from their common ancestor, we find a greater number of mares of tried excellence, especially:

1. Marpessa (66), in-bred to Whiskey (dam of Pocahontas, Boarding School Miss, and Jeremy Diddler).
2. Idalia (36), in-bred to Highflyer (dam of Pantaloon).
3. Necklace (83), in-bred to Emilius (dam of Macgregor).
4. Isoline (84), in-bred to Sir Hercules (dam of Isola Bella, Isonomy's dam, St. Christophe, and Braconnier).
5. The winner of the Oaks, Feu de Joie (85), in-bred to Touchstone (dam of Allumette, Hallate, &c.).
6. Veilchen (86), in-bred to Touchstone (dam of Vergissmeinnicht, dam of Wer Weiss, Wunderhorn, Walhalla, F. F. Walpurgis).
7. Bay Celia (70), in-bred to Camel (dam of The Earl and The Duke).
8. Elphine (102), in-bred to Beningbro' (dam of Lambton and Warlock).
9. Finesse (13), in-bred to Highflyer (dam of Decoy).
10. Decoy (40), in-bred to Sir Peter (dam of The Drone, Sleight of Hand, Van Amburgh, Legerdemain, Phryne, Flatcatcher).
11. Legerdemain (13), in-bred to Peruvian (dam of Toxophilite).

The latter instance is particularly remarkable, as it seems to corroborate the evidence of Mandragora, Mineral, and The Miner that in-breeding in mares does not influence individual potency in an equally unfavourable degree as in stallions.

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Legerdemain is own sister to Sleight of Hand, The Drone, and Van Amburgh, who proved themselves inferior or useless at the stud; she herself, on the contrary, produced a horse of the first class, like Toxophilite, and that, too, under very adverse circumstances. In order to prevent the frequent re-occurrence of horsing, she was covered, when not more than three years of age, by Ion, won in the month of October of the same year (1849) the Cesarewitch, slipped her foal the day after, and then remained two years longer in training—all of which certainly did not enhance her usefulness at the stud.

A young mare with but two clear removes in-bred, who proved herself a pearl of the first water on the turf, and was in 1881 winner of the One Thousand Guineas and Oaks:

12. Thebais (97), in-bred to Touchstone.

Three clear removes in the descent from their common ancestor show among others the parents of:

1. Vulture (44), in-bred to Buzzard (dam of Orlando).
2. Peri (47), in-bred to Eclipse (dam of Sir Hercules).
3. Seclusion (87), in-bred to Sultan (dam of the Derby winner Hermit).
4. Languish (88), in-bred to Sir Peter (dam of the winner of the Oaks, Ghuznee).
5. Gruyère (74), in-bred to Waxy and Penelope (dam of Parmesan).
6. Mowerina (28), in-bred to Waxy, own sister to Cotherstone (and dam of West Australian, Go-ahead, Old Orange Girl, Baragah, and Westwick).

A similar case of in-breeding occurs here, as in Mandragora, Mineral, and Legerdemain, compared to The Miner, Sleight of Hand, The Drone, and Van Amburgh. Whereas Cotherstone, a quite exceptional horse on the

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turf, proves a failure at the stud, his own sister, Mowerina, becomes one of the most celebrated matrons in the whole Stud Book. Queen Mary (71) might be mentioned here as in-bred to Whalebone, but as it is not beyond all doubt whether Moses is by Whalebone or Seymour, we had better leave her out.

With regard to future breeding results, it may be of interest to state that that wonder of the world,

7. Kincsem (95), in-bred to Slane, also belongs to this category of in-bred parents, as well as
8. Bal Gal (96), in-bred to Touchstone.

Of the numerous celebrated matrons, whose parents show *four* clear removes from their common ancestor, I may mention:

1. Martha Lynn (50) on both sides traces back to Sir Peter (dam of the Derby winner 1850, Voltigeur, Vortex, Eulogy, Barnton, Maid of Hart, Vivandière).
2. Emma (89) goes back to Eclipse (dam of Mundig, winner of the Derby 1835; Cotherstone, winner of the Two Thousand Guineas and the Derby 1843; Mowerina, Lady of Silverkeld Well, &c.).
3. Snowdrop (90) goes back to Beninbro' (dam of Gemma di Vergy).
4. Canezou (91), goes back to Sorcerer (dam of Fazzoletto, Basquine, La Bossue, dam of Boiard).
5. Ghuznee (88), daughter of Languish, in-bred to the same Sir Peter, goes back to Sir Peter (dam of Meeanee, Storm, Scalade, &c.).
6. Alice Hawthorn (92), goes back to Beningbro' (dam of Thormanby, winner of the Derby 1860; Oulston, Terrona, Findon, Lady Hawthorn, Sweet Hawthorn).

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7. Phryne (40) goes back to Waxy. She produced to Pantaloon: Elthiron, Windhound, Hobbie Noble, and The Reiver: to Melbourne, Rambling Katie and Blanche of Middlebie; and to The Flying Dutchman: Katherine Logie.

About the breeding combinations in respect to Phryne volumes might be written. We have seen, that of the mares showing in the descent of their parents but two removes from the common ancestor, Finesse, her daughter Decoy and grand-daughter Legerdemain, are in that strong degree in-bred to the three sires Highflyer, Sir Peter, and Peruvian, or grandfather, father and son; nevertheless, Legerdemain (13), the offspring of threefold in-breeding, when mated with a stallion of a quite different strain of blood, breeds a horse of the first class, like Toxophilite; and her dam Decoy, a produce of twofold in-breeding, with Pantaloon (from herself only twice removed), four such good animals as Sleight of Hand (13), The Drone, Van Amburgh, and Legerdemain. Fortunately, for a comparison, Decoy was also mated with Touchstone, with whom she stands (four degrees removed from Waxy) in moderate relationship, and, behold, produced Flatcatcher (40), winner of the Two Thousand Guineas and sire of numerous excellent brood mares, and Phryne, one of the most valuable pearls of the whole Stud Book. Decoy must assuredly have been a mare of enormous individual potency, to be able to produce six animals of the quality, of one description or another, of The Drone, Sleight of Hand, Van Amburgh, Legerdemain, Flatcatcher, and Phryne, but no doubt can be entertained as to the incomparably higher value of the two last, produced within moderate relationship than of the other four, the offsprings of close in-breeding.

All these investigations and comparisons seem to point,

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I should say, to the fact that in-breeding in mares, even if once or twice repeated, need not render us absolutely distrustful as to their value at the stud; that, however on the whole, the mating of the best individuals within the chosen families, moderately related, is preferable for the production of brood mares as well as stallions, because such mating within the same strains of blood may, as occasion requires, be repeated without danger, as no apprehension of thereby weakening the constitution need be entertained.

It is evident, however, that the observance of this principle, if continued *ad infinitum*, also is not without danger to the lasting prosperity of the breed, for the more frequently the mating of animals, standing to one another in even a moderate degree of kin only, is resorted to, the more will gradually become the in-breeding in the whole species of thoroughbreds, necessitating, at perhaps a not far distant period, the infusion of new blood by occasionally importing into England sires of pre-eminence from other countries.

Experience points to America as the source from which to draw in future the regenerating fluid; for although the American thoroughbred takes its origin from England, and is still, more or less, related to its English prototype, the exterior appearance and the more recently shown superiority of American horses lead to the conclusion that the evidently favourable climate and the, to a great extent, virgin soil of America—in every respect different from ours—gradually restore the whole nature of the horse to its pristine vigour, and make the American race appear eminently qualified to exercise an invigorating influence on the constitution of the thoroughbred in the mother country, enfeebled, perhaps, by oft repeated in-breeding.

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PEDIGREES.

No. 1—106.

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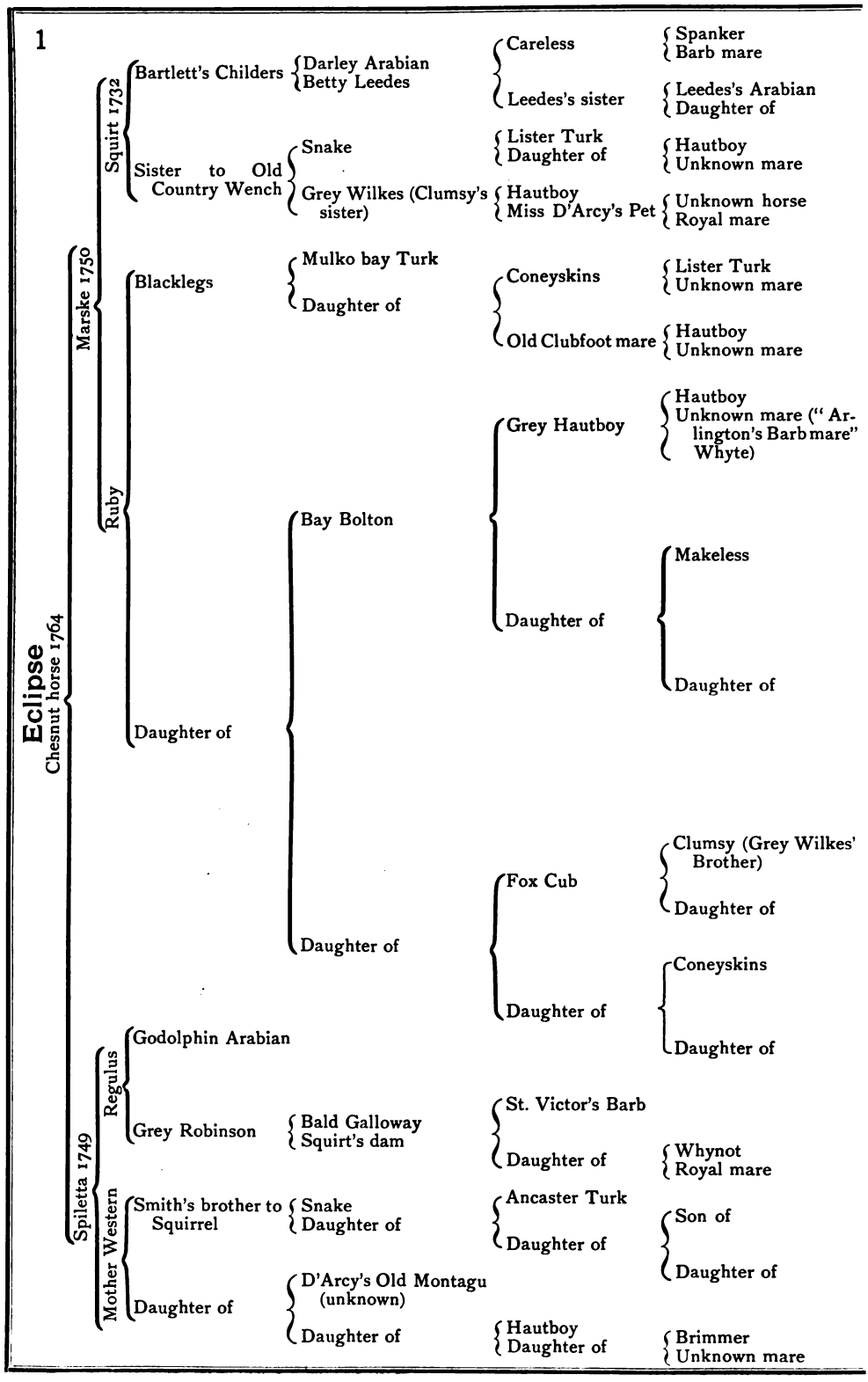

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- D'Arcy's yellow Turk
- Old Morocco mare
  - Lord Fairfax's Morocco Barb
  - Bald Peg
    - Arabian
    - Barb mare

- **Spanker**
- Old Morocco mare (**Spanker's** dam)

- D'Arcy's white Turk
- Royal mare

- Oglethorpe Arabian
- Unknown mare

- Brimmer
  - D'Arcy's yellow Turk
  - Royal mare
- Daughter of
  - Diamond
    - Jew Trump
      - Curwen's Arabian chesnut
      - Daughter of
        - Bay Barb
        - Unknown mare
    - Daughter of
      - Flanderkin's sire (Turk)
      - Daughter of
        - Bay Barb
        - Daughter of
          - Wastell's Turk
          - Daughter of
            - Imported horse
            - Unknown mare
  - Unknown mare

- Hautboy
- Miss D'Arcy's Pet mare

- Leedes's Arabian
- Unknown mare

- Lister Turk
- Unknown mare

- Hutton's grey Barb
- Daughter of
  - Hutton's stallion
    - Helmsley Turk
    - Royal mare
  - Daughter of
    - Byerly Turk
    - Daughter of
      - Bustler
        - Helmsley Turk
        - Unknown mare
      - Unknown mare

- Fenwick Barb
- Unknown mare

- Pulleine Arabian chesnut
- Unknown mare

- Brimmer
- Unknown mare

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2 **Knight of St. George** 1851	Birdcatcher 1833	**Sir Hercules** 1826	Whalebone 1807	Waxy 1790	Penelope 1798
			Peri 1822	Wanderer 1790	Thalestris 1809
		Guiccioli 1823	Bob Booty 1804	Chanticleer 1787	Jerne 1790
			Flight 1809	Escape 1802	Y. Heroine
	Maltese 1845	Hetman Platoff 1836	Brutandorf 1821	Blacklock 1814	Mandane 1800
			Daughter of 1820	Comus 1809	Marciana 1809
		Waterwitch 1845	**Sir Hercules** 1826	Whalebone 1807	Peri 1822
			Mary Anne	Waxy Pope 1806	Witch 1807
3 **Friponnier** 1864	Chevalier d'Industrie 1845	**Orlando** 1841	Touchstone 1831	Camel 1822	Banter 1826
			Vulture 1833	Langar 1817	Kite 1821
		Industry 1835	Priam 1827	Emilius 1820	Cressida 1807
			Arachne	Filho da Puta 1812	Treasure
	Tension 1858	Teddington 1848	**Orlando** 1841	Touchstone 1831	Vulture 1833
			Miss Twickenham 1838	Rockingham 1830	Electress 1819
		Daughter of 1846	Gladiator 1833	Partisan 1811	Pauline 1826
			Daughter of 1834	Cadland 1825	Widgeon 1827
4 **Orest** 1857	Orestes	Orlando	**Touchstone**	Camel	Banter
			Vulture	Langar	Kite
		Daughter of	Bay Middleton	Sultan	Cobweb
			Vitula	Voltaire	Lottery mare
	Lady Louisa 1850	**Touchstone**	Camel	Whalebone	Selim mare
			Banter	Master Henry	Boadicea
		Daughter of	Lanercost	Liverpool	Otis
			Caroline	Whisker	Gibside Fairy
5 **The Miner** Brother to Mandragora and Mineral 1861	Rataplan 1850	The Baron 1842	**Birdcatcher** 1833	Sir Hercules 1826	Guiccioli 1823
			Echidna 1838	Economist 1825	Miss Pratt 1825
		Pocahontas 1837	Glencoe 1831	Sultan 1816	Trampoline 1825
			Marpessa 1830	Muley 1810	Clare 1824
	Manganese 1853	**Birdcatcher** 1833	Sir Hercules 1826	Whalebone 1807	Peri 1822
			Guiccioli 1823	Bob Booty 1804	Flight 1809
		Moonbeam 1838	Tomboy 1829	Jerry 1821	Ardrossan mare 1817
			Lunatic 1818	Prime Minister	Maniac

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6 **Alarm** 1842	Venison 1833	Partisan 1811	Walton 1799	**Sir Peter** 1784	Highflyer Papillon
				Arethusa 1792	Dungannon Prophet mare
			Parasol 1800	Pot-8-os 1773	Eclipse Sportsmistress
				Prunella 1788	Highflyer Promisse
		Fawn 1823	Smolenkso 1810	Sorcerer 1796	Trumpator Young Giantess
				Wowski 1797	Mentor Maria
			Jerboa 1803	Gohanna 1790	Mercury by Eclipse Precipitate's dam
				Camilla 1778	Trentham Coquette
	Southdown 1836	Defence 1824	Whalebone 1807	Waxy 1790	Pot-8-os by Eclipse Maria
				Penelope 1798	Trumpator **Prunella**
			Defiance 1816	Rubens 1805	Buzzard Alexander mare
				Little Folly 1806	Highland Fling Harriet
		Feltona 1819	X Y Z 1808	Haphazard 1797	**Sir Peter** Miss Hervey
				Daughter of 1793	Spadille Sylvia
			Janetta 1803	Beningbrough 1791	King Fergus Herod mare
				Daughter of 1797	Drone Contessina
7 **Priam** 1827		Emilius 1820	Orville 1799	Beningbrough 1791	King Fergus 1775 Herod mare 1780
				Evelina 1791	Highflyer 1774 Termagant 1772
			Emily 1810	Stamford 1794	Sir Peter 1784 Horatia 1778
				Daughter of 1799	**Whiskey** 1789 Grey Dorimant 1781
		Cressida 1807	**Whiskey** 1789	Saltram 1780	Eclipse 1764 Virago 1764
				Calash 1775	Herod 1758 Teresa 1767
			Y. Giantess 1790	Diomed 1777	Florizel 1768 Juno's sister
				Giantess 1769	Matchem 1748 Molly Long Legs 1753
8 **Blue Gown** 1865		Beadsman 1855	Weatherbit 1842	Sheet Anchor 1832	Lottery 1820 Morgiana 1820
				Miss Letty 1834	Priam 1827 Miss Fanny's dam 1815
			Mendicant 1843	**Touchstone** 1831	Camel 1822 Banter 1826
				Lady Moore Carew 1830	Tramp 1810 Kite 1821
		Bas Bleu 1858	Stockwell 1849	The Baron 1842	Birdcatcher 1833 Echidna 1838
				Pocahontas 1837	Glencoe 1831 Marpessa 1830
			Vexation 1845	**Touchstone** 1831	Camel 1822 Banter 1826
				Vat 1826	Langar 1817 Wire 1811

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9 **Melbourne** 1834	Humphrey Clinker 1822	Comus 1809	Sorcerer 1796	Trumpator 1782	Conductor Brunette
				Y. Giantess 1790	Diomed Giantess
			Houghton Lass 1801	Sir Peter 1784	Highflyer Papillon
				Alexina 1788	King Fergus Lardella
		Clinkerina 1812	Clinker 1805	Sir Peter 1784	Highflyer Papillon
				Hyale 1797	Phenomenon Rally
			Pewet 1786	Tandem 1773	Syphon Regulus mare
				Termagant 1772	Tantrum Cantatrice
	Daughter of 1825	Cervantes 1806	Don Quixote 1784	Eclipse 1764	Marske Spilletta
				Grecian Princess 1770	Wm.'s Forester Coalition Colt mare
			Evelina 1791	Highflyer 1774	Herod Rachel
				Termagant 1772	Tantrum Cantatrice
		Daughter of 1818	Golumpus 1802	Gohanna 1790	Mercury Herod mare
				Catherine 1795	Woodpecker Camilla
			Daughter of 1810	Paynator 1791	Trumpator Mark Antony mare
				Zodiac's sister	St. George Abigail
10 **The Saddler** 1828	Waverley 1817		Whalebone 1807	Mary 1790	Pot:8-os 1773 Maria 1777
				Penelope 1798	Trumpator 1782 Prunella 1788
			Margaretta 1802	Sir Peter 1784	Highflyer 1774 Papillon 1769
				Cracker's sister 1792	Highflyer 1774 Nutcracker 1767
	Castrellina 1823		Castrel 1801	Buzzard 1787	Woodpecker 1773 Misfortune 1775
				Daughter of 1790	Alexander 1782 Highflyer mare
			Daughter of 1815	Mary 1790	Pot-8-os 1773 Maria 1777
				Bizarre 1811	Peruvian 1806 Violante 1802
11 **Pericles** 1809	Evander 1801		Delpini 1781	Highflyer 1774	Herod Rachel
				Countess 1760	Blank Rib mare
			Caroline 1793	Phenomenon 1780	Herod Frenzy
				Faith 1779	Pacolet Atalanta
	Daughter of 1796		Precipitate 1787	Mercury 1778	Eclipse Tartar mare
				Daughter of 1779	Herod Maiden
			Osprey's sister	Highflyer 1774	Herod Rachel
				Daughter of 1774	Snap Orford-Barb mare

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12 **Galopin** 1872	Vedette 1857	Voltigeur 1847	**Voltaire** 1826	Blacklock 1814 Phantom mare 1816
			Martha Lynn 1837	Mulatto 1823 Leda 1824
		Daughter of 1849	Birdcatcher 1833	Sir Hercules 1826 Guiccioli 1823
			Nan Darrell 1844	Inheritor 1831 Nell 1831
	Flying Duchess 1853	The Flying Dutchman 1846	Bay Middleton 1833	Sultan 1816 Cobweb 1821
			Barbelle 1836	Sandbeck 1818 Darioletta 1822
		Merope 1841	**Voltaire** 1826	Blacklock 1814 Phantom mare 1816
			Velocipede's dam 1817	Juniper 1805 Sorcerer mare 1810
13 **Sleight of Hand** Own brother to Drone, Van Amburgh, Legerdemain	Pantaloon 1824	Castrel 1801	Buzzard 1787	Woodpecker 1773 Misfortune 1775
			Daughter of 1790	Alexander 1782 Highflyer mare
		Idalia 1815	**Perubian** 1806	Sir Peter 1784 Boudrow mare 1788
			Musidora 1804	Meteor 1783 Maid of all Work 1786
	Decoy 1830	Filho da Puta 1812	Haphazard 1797	SIR PETER 1784 Miss Hervey 1775
			Mrs. Barnet 1806	Waxy 1790 Woodpecker mare 1788
		Finesse 1815	**Perubian** 1806	SIR PETER 1784 v. HIGHFLYER Boudrow mare 1788
			Violante 1802	John Bull 1789 Skyscraper's sister 1788 by HIGHFLYER
14 **Petrarch** 1873	Lord Clifden 1860	Newminster 1848	**Touchstone** 1831	Camel Banter
			Beeswing 1833	Dr. Syntax Ardrossan mare
		The Slave 1852	Melbourne 1834	Humphrey Clinker Cervantes mare
			Volley 1845	Voltaire Martha Lynn
	Laura 1860	Orlando 1841	**Touchstone** 1831	Camel Banter
			Vulture 1833	Langar Kite
		Torment 1850	Alarm 1842	Venison Southdown
			Daughter of 1837	Glencoe Alea
15 **Lowlander** 1870	Dalesman 1863	King Tom 1851	Harkaway 1834	Economist 1825 Nabocklish mare 1823
			Pocahontas 1837	Glencoe 1831 Marpessa 1830
		Agnes 1848	**Pantaloon** 1824	Castrel 1801 Idalia 1815
			Black Agnes 1831	Velocipede 1825 Walton mare 1808
	Lufra 1860	Windhound 1847	**Pantaloon** 1824	Castrel 1801 Idalia 1815
			Phryne 1840	Touchstone 1831 Decoy 1830
		Maud 1854	Loup Garou 1846	Lanercost 1835 Moonbeam 1838
			Venilia 1834	Velocipede 1825 Charity 1824

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16 **Chatham** 1839	The Colonel 1825	Whisker 1812	**Mary** 1790	Pot-8-os 1773 Maria 1777
			Penelope 1798	Trumpator 1782 Prunella 1788
		My Lady's dam 1802	Delpini 1781	Highflyer 1774 Countess 1760
			Tipplecyder 1783	King Fergus Sylvia
	Hester 1832	Camel 1822	Whalebone 1807	**Mary** 1790 **Penelope** 1798
			Daughter of 1812	Selim 1802 Maiden 1801
		Monimia 1821	Muley 1810	Orville 1790 Eleanor 1798
			Petworth's sister 1790	Precipitate 1787 Woodpecker mare 1787
17 **Orlando** 1841	Touchstone 1831	Camel 1822	Whalebone 1807	Waxy 1790 Penelope 1798
			Daughter of 1812	**Selim** 1802 Maiden 1801
		Banter 1826	Master Henry 1815	Orville 1799 Miss Sophia 1805
			Boadicea 1807	Alexander 1782 Brunette 1771
	Vulture 1833	Langar 1817	**Selim** 1802	Buzzard 1787 Alexander mare 1790
			Daughter of 1808	Walton 1799 Y. Giantess 1790
		Kite 1821	Bustard 1813	Castrel 1801 Miss Hap 1806
			Olympia 1815	Sir Oliver 1800 Scotilla 1795
18 **Weatherbit** 1842	Sheet Anchor 1832	Lottery	Tramp	Dick Andrews Gohanna mare
			Mandane	Pot-8-os Y. Camilla
		Morgiana	Muley	**Orville** Eleanor
			Miss Stephenson	Scud or Sorcerer Petworth's sister
	Miss Letty 1834	Priam	Emilius	**Orville** Emily
			Cressida	Whiskey Y. Giantess
		Miss Fanny's dam	**Orville**	Beningbrough Evelina
			Daughter of	Buzzard Hornpipe
19 **The Flying Dutchman** 1846	Bay Middleton 1833	Sultan	**Selim**	Buzzard Alexander mare
			Bacchante	Williamson's ditto Calomel's sister
		Cobweb	Phantom	Walton Julia
			Filagree	Soothsayer Web
	Barbelle 1836	Sandbeck 1818	Catton	Golumpus Lucy Gray
			Orvillina	Beningbrough Evelina
		Darioletta 1822	Amadis	Don Quixote 1784 (brother to Alexander) Fanny
			Selima	**Selim** Pot-8-os mare

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20 **Emilius** 1820	Orville 1799	Beningbrough 1791	King Fergus 1775	Eclipse 1764	Polly 1756
			Daughter of 1780	Herod 1758	Pyrrha 1771
		Evelina 1791	Highflyer 1774	Herod 1758	Rachel 1750
			Termagant 1772	Tantrum 1760	Cantatrice
	Emily 1810	Stamford 1794	Sir Peter 1784	Highflyer 1774	Papillon 1769
			Horatia 1778	Eclipse 1764	Countess 1760
		Daughter of 1799	Whiskey 1789	Saltram 1780	Calash 1775
			Grey Dorimant 1781	Dorimant 1772	Dizzy 1757
21 **Tramp** 1810	Dick Andrews 1797	Joe Andrews 1778	Eclipse 1764	Marske 1750	Spiletta 1749
			Amaranda 1771	Omnium 1758	Cloudy 1761
		Daughter of 1790	Highflyer 1774	Herod 1758	Rachel 1750
			Daughter of	Cardinal Puff 1760	Tatler mare
	Daughter of 1803	Gohanna 1790	Mercury 1778	Eclipse 1764	Old Tartar mare
			Daughter of	Herod 1758	Maiden 1770
		Fraxinella 1793	Trentham 1766	Sweepstakes 1749	Miss South 1750
			Goldfinch's sister	Woodpecker 1773	Everlasting 1775
22 **Flibustier** 1867	Buccaneer 1857	Wild Dayrell 1852	Ion 1835	Cain 1822	Paulowitz 1813
				Margaret 1831	Paynator mare
					EDMUND 1824
					Medora 1811
		Ellen Middleton	Bay Middleton	Sultan	Cobweb
			Myrrha	Malek	Bessy
		Daughter of 1841	Little Red Rover 1827	Tramp 1810	Dick Andrews
					Gohanna mare
			Miss Syntax	Paynator	Beningbrough mare
		Eclat 1830	EDMUND 1824	Orville	Emmeline
			Squib 1820	Soothsayer	Berenice
	Sweet Katie 1861	Stockwell	The Baron	Birdcatcher	Sir Hercules
					Guiccioli
			Echidna	Economist	Miss Pratt
		Pocahontas	Glencoe	Sultan	Trampoline
			Marpessa	Muley	Clare
		Kathleen 1847	Lanercost	Liverpool	Tramp
					Whisker mare
			Otis	Bustard	Election mare
		Croppy 1835	Priam	Emilius	Cressida
			Dahlia	Phantom	Waxy mare

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23 **Juliana** (late Lady Thigh) 1810	Gohanna 1790	**Mercury** 1778	Eclipse 1764	Marske 1750 Spiletta 1749
			Daughter of	Old Tartar Mogul mare
		Daughter of 1779	HEROD 1758	Tartar 1742 Cypron 1750
			Maiden 1770	Matchem 1748 Squirt mare 1750
	Platina 1792	**Mercury** 1778	Eclipse 1764	Marske 1750 Spiletta 1749
			Daughter of	Old Tartar Mogul mare
		Daughter of	HEROD 1758	Tartar 1742 Cypron 1750
			Y. Hag 1761	Skim 1746 Hag 1754
24 **Oulston** 1852	Melbourne 1834	Humphrey Clinker 1822	Comus 1809	Sorcerer 1796 Houghton Lass 1801
			Clinkerina 1812	Clinker 1805 Pewet 1786
		Daughter of 1825	**Cervantes** 1806	Don Quixote 1784 Evelina 1791
			Daughter of 1818	Golumpus 1802 Paynator mare 1810
	Alice Hawthorn 1838	Muley Moloch 1830	Muley 1810	Orville 1799. Eleanor 1798.
			Nancy 1813	Dick Andrews Spitfire 1800
		Rebecca 1831	Lottery 1820	Tramp 1810 Mandane 1800
			Daughter of 1818	**Cervantes** 1806 Anticipation 1802
25 **Windhound** Brother to Ethiron, Hobbie Noble and The Reiver 1847	Pantaloon 1824	Castrel 1801	Buzzard 1787	Woodpecker 1773 Misfortune 1775
			Daughter of 1790	Alexander 1782 Highflyer mare
		Idalia 1815	**Peruvian** 1806	Sir Peter 1784 Boudrow mare 1788
			Musidora 1804	Meteor 1783 Maid of all Work 1786
	Phryne 1840	Touchstone 1831	Camel 1822	Whalebone 1807 Selim mare 1812
			Banter 1826	Master Henry 1815 Boadicea 1807
		Decoy 1830	Filho da Puta 1812	Haphazard 1797 Mrs. Barnet 1806
			Finesse 1815	**Peruvian** 1806 Violante 1802

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26 **Isonomy** 1875	Sterling 1868	Oxford 1857	**Birdcatcher** 1833	Sir Hercules	Whalebone Peri
				Guiccioli	Bob Booty Flight, by Escape
			Honey Dear 1844	Plenipotentiary	Emilius Harriet
				My Dear	Bay Middleton Miss Letty
		Whisper 1851	Flatcatcher 1839	Touchstone	Camel Banter
				Decoy	Filho da Puta Finesse
			Silence 1848	Melbourne	Humphrey Clinker Cervantes mare
				Secret	Hornsea Solace
	Isola Bella 1868	Stockwell 1849	The Baron 1842	**Birdcatcher** 1833	Sir Hercules Guiccioli
				Echidna	Economist Miss Pratt
			Pocahontas 1837	Glencoe	Sultan Trampoline
				Marpessa	Muley Clare, by Marmion
		Isoline 1860	Ethelbert 1850	Faugh-a-Ballagh	Sir Hercules Guiccioli
				Espoir	Liverpool Esperanza
			Bassishaw 1847	Prime Warden	Cadland Zarina, by Morisco
				Miss Whinny	Sir Hercules Euphrosyne
27 **Silvio** 1874	Blair Athol 1861	Stockwell 1849	The Baron 1842	**Birdcatcher** 1833	Sir Hercules Guiccioli, by Bob Booty
				Echidna	Economist, by Whisker Miss Pratt, by Blacklock
			Pocahontas 1837	Glencoe	Sultan, by Selim Trampoline, by Tramp
				Marpessa	Muley, by Orville Clare, by Marmion
		Blink Bonny 1854	Melbourne 1834	Humphrey Clinker	Comus, by Sorcerer Clinkerina, by Clinker
				Daughter of	Cervantes, by D. Quixote Golumpus mare
			Queen Mary 1843	Gladiator	Partisan, by Walton Pauline, by Moses
				Daughter of	Plenipo, by Emilius Myrrha, by Whalebone
	Silverhair 1858	Kingston 1849	Venison 1833	Partisan	Walton, by Sir Peter Parasol, by Pot-8-os
				Fawn	Smolensko, by Sorcerer Jerboa, by Gohanna
			Queen Anne 1840	Slane	Royal Oak, by Catton Orville mare
				Garcia	Octavian, by Stripling Shuttle mare
		England's Beauty 1850	**Birdcatcher** 1833	Sir Hercules	Whalebone, by Waxy Peri, by Wanderer
				Guiccioli	Bob Booty Flight, by Escape
			Prairie Bird 1844	Touchstone	Camel, by Whalebone Banter, by Mastr. Henry
				Zillah	Reveller, by Comus Morisca, by Morisco

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28 **Cotherstone** Own brother to Mowerina 1843	Touchstone 1831	Camel 1822	Whalebone 1807	**Mary** 1790
				Penelope 1798
			Daughter of 1812	Selim 1802
				Maiden 1801
		Banter 1826	Master Henry 1815	Orville 1799
				Miss Sophia 1805
			Boadicea 1807	Alexander 1782
				Brunette 1771
	Emma 1824	Whisker 1812	**Mary** 1790	Pot-8-os 1773
				Maria 1777
			Penelope 1798	Trumpator 1782
				Prunella 1788
		Gibside Fairy 1811	Hermes 1790	Mercury 1778
				Rosina 1783
			Vicissitude 1800	Pipator 1786
				Beatrice 1791
29 **Dalham** 1871	Cathedral 1861	Newminster 1848	**Touchstone** 1831	Camel 1822
				Banter 1826
			Beeswing 1833	Dr. Syntax 1811
				Ardrossan mare 1817
		Stolen Moments 1852	Melbourne 1834	Humphrey Clinker 1822
				Cervantes mare 1825
			Lady Elizabeth 1845	Sleight of Hand 1836
				Margrave mare 1836
	Gertrude 1865	The Marquis 1859	Stockwell 1849	The Baron 1842
				Pocahontas 1837
			Cinizelli 1842	**Touchstone** 1831
				Brocade 1834
		Betsy Carr 1859	Fazzoletto 1853	Orlando by **Touchstone**
				Canezou 1845 [1841
			Pink Bonnet 1844	Lanercost 1835
				Belinda 1825
30 **Macgregor** 1867	Macaroni 1860	Sweetmeat 1842	Gladiator 1833	Partisan 1811
				Pauline 1826
			Lollypop 1836	Starch 1819, or Voltaire
				Belinda 1825 [1817
		Jocose 1843	Pantaloon 1824	Castrel 1801
				Peruvian mare 1815
			Banter 1826	Master Henry 1815
				Boadicea 1807
	Necklace 1860	The Fallow Buck 1845	Venison 1833	Partisan 1811
				Fawn 1823
			Plenipotentiary's sister 1837	EMILIUS 1820
				Harriet 1819
		Bracelet 1852	Touchstone 1831	Camel 1822
				Banter 1826
			Manacle 1839	EMILIUS 1820
				Y. Maniac 1826
31 **Argonaut** 1859	Stockwell 1849	The Baron 1842	Birdcatcher 1833	**Sir Hercules** 1826
				Guiccioli 1823
			Echidna 1838	Economist 1825
				Miss Pratt 1825
		Pocahontas 1837	Glencoe 1831	Sultan 1816
				Trampoline 1825
			Marpessa 1830	Muley 1810
				Clare 1824
	Aphrodite 1848	Bay Middleton 1833	Sultan 1816	Selim 1802
				Bacchante 1809
			Cobweb 1821	Phantom 1808
				Filagree 1815
		Venus 1840	**Sir Hercules** 1826	Whalebone 1807
				Peri 1822
			Echo 1828	Emilius 1820
				Scud mare 1820

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32 **Sweetmeat** 1842	Gladiator 1833	Partisan 1811	Walton 1799	Sir Peter 1784	Highflyer Papillon
				Arethusa 1792	Dungannon Prophet mare
			Parasol 1800	Pot-8-os 1773	Eclipse Sportsmistress
				Prunella 1788	Highflyer Promise
		Pauline 1826	Moses 1819	Whalebone 1807—or Seymour 1807	Waxy Penelope
				Daughter of 1807	Gohanna Grey Skim
			Quadrille 1815	Selim 1802	Buzzard Alexander mare
				Canary Bird 1806	Whiskey or Sorcerer Canary
	Lollypop 1836	Starch 1819—or Voltaire 1817	Waxy Pope 1806	Waxy 1790	Pot-8-os Maria
				Prunella 1788	Highflyer Promise
			Miss Stavely 1805	Shuttle 1793	Y. Marske Vauxhall Snap mare
				Daughter of 1793	Drone Camperdown's dam
		Belinda 1825	Blacklock 1814	Whitelock 1803	Hambletonian Rosalind
				Daughter of 1799	Coriander Wildgoose
			Wagtail 1818	Prime Minister 1810	Sancho Miss Hornpipe Teazle
				Daughter of 1812	Orville Miss Grimstone
33 **The Baron** 1842	Birdcatcher 1833	Sir Hercules 1826	Whalebone 1807	Mary 1790	Pot-8-os Maria
				Penelope 1798	Trumpator Prunella
			Peri 1822	Wanderer 1790	Gohanna Catherine
				Thalestris 1809	Alexander Rival
		Guiccioli 1823	Bob Booty 1804	Chanticleer 1787	Woodpecker Eclipse mare
				Ierne 1790	Bagot Gamahoe mare
			Flight 1809	Escape 1802	Commodore Highflyer mare
				Y. Heroine	Bagot Old Heroine
	Echidna 1838	Economist 1825	Whisker 1812	Mary 1790	Pot-8-os Maria
				Penelope 1798	Trumpator Prunella
			Floranthe 1818	Octavian 1807	Stripling Oberon mare
				Caprice 1797	Anvil Madcap
		Miss Pratt 1825	Blacklock 1814	Whitelock 1803	Hambletonian Rosalind
				Daughter of 1799	Coriander Wildgoose
			Gadabout 1812	Orville 1799	Beningbrough Evelina
				Minstrel 1803	Sir Peter Matron

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34 **Bay Middleton** 1833	Sultan 1816	Selim 1802	Buzzard 1787	Woodpecker 1773	Herod 1758 Miss Ramsden
				Misfortune 1775	Dux 1761 Curiosity 1760
			Daughter of 1790	Alexander 1782	Eclipse 1764 Grecian Princess 1770
				Daughter of	HIGHFLYER 1774 Alfred mare
		Bacchante 1809	Williamson's Ditto 1800	**Sir Peter** 1784	HIGHFLYER 1774 Papillon 1769
				Arethusa 1792	Dungannon 1780 Prophet mare 1777
			Calomel's sister 1791	Mercury 1778	Eclipse 1764 Tartar mare
				Daughter of 1776	Herod 1758 Folly by Marske
	Cobweb 1821	Phantom 1808	Walton 1799	**Sir Peter** 1784	Highflyer 1774 Papillon 1769
				Arethusa 1792	Dungannon 1780 Prophet mare 1777
			Julia 1799	Whiskey 1789	Saltram 1780 Calash 1775
				Y. Giantess 1790	Diomed 1777 Giantess 1769
		Filagree 1815	Soothsayer 1808	Sorcerer 1796	Trumpator 1782 Y. Giantess 1790
				Goldenlocks 1793	Delpini 1781 Violet 1787
			Web 1808	Waxy 1790	Pot-8-os 1773 Maria 1777
				Penelope 1798	Trumpator 1782 Prunella 1788
35 **Sultan** 1816	Selim 1802	Buzzard 1787	Woodpecker 1773	Herod 1758	Tartar 1743 Cypron 1750
				Miss Ramsden	Cade 1734 [mare Lonsdale Bay Arabian
			Misfortune 1775	Dux 1761	Matchem 1748 Duchess 1748
				Curiosity 1760	Snapp 1750 Miss Belsea's sister
		Daughter of 1790	Alexander 1782	**Eclipse** 1764	Marske 1750 Spiletta 1749
				Grecian Princess 1770	Williams's Forester 1750 Coalition Colt mare
			Daughter of	**Highflyer** 1774	Herod 1758 Rachel 1750
				Daughter of	Alfred 1770 Engineer mare
	Bacchante 1809	Williamson's Do. 1800	Sir Peter 1784	**Highflyer** 1774	Herod 1758 Rachel 1750
				Papillon 1769	Snap 1750 Miss Cleveland 1758
			Arethusa 1792	Dungannon 1780	Eclipse 1764 Aspasia 1775
				Daughter of 1777	Prophet 1760 Virago 1764
		Calomel's sister 1791	Mercury 1778	**Eclipse** 1764	Marske 1750 Spiletta 1749
				Daughter of	Tartar 1743 Mogul mare
			Daughter of 1776	Herod 1758	Tartar 1743 Cypern 1750
				Folly 1764	Blank Regulus' sister

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36 **Pantaloon** 1824	Castrel 1801	Buzzard 1787	Woodpecker 1773	Herod 1758	Tartar Cypron
				Miss Ramsden	Cade Lonsdale mare
			Misfortune 1775	Dux 1761	Matchem Duchess
				Curiosity 1760	Snap Miss Belsea's sister
		Daughter of 1790	Alexander 1782	Eclipse 1764	Marske Spiletta
				Grec. Princess 1770	Williams's Forester Coalition colt mare
			Daughter of	Highflyer 1774	Herod Rachel
				Daughter of 1769	Alfred Engineer mare
	Idalia 1815	Peruvian 1806	Sir Peter 1784	Highflyer 1774	Herod Rachel
				Papillon 1769	Snap Miss Cleveland
			Daughter of 1788	Boudrow 1777	Eclipse Sweeper mare
				Escape's dam 1768	Squirrel Babraham mare
		Musidora 1804	Meteor 1783	Eclipse 1764	Marske Spiletta
				Daughter of 1765	Merlin, by Second Missis Pratt
			Maid of all Work 1786	Highflyer 1774	Herod Rachel
				Tandem's sister	Syphon Regulus mare
37 **Blacklock** 1814	Whitelock 1803	Hambletonian 1792	King Fergus 1775	Eclipse 1764	Marske 1750 Spiletta 1749
				Polly 1756	Black and all Black 1743 Fanny 1751
			Daughter of 1782	Highflyer 1774	Herod 1758 Rachel 1763
				Monimia 1771	Matchem 1748 Alcides mare
		Rosalind 1788	Phenomenon 1780	Herod 1758	Tartar 1743 Cypron 1750
				Frenzy 1774	Eclipse 1764 Engineer mare
			Atalanta 1769	Matchem 1748	Cade 1734 Partner mare 1735
				Lass of the Mill 1745	Traveller 1735 Miss Makeless 1737
	Daughter of 1799	Coriander 1786	Pot-8-os 1773	Eclipse 1764	Marske 1750 Spiletta 1749
				Sportsmistress 1763	Sportsman 1753 Goldenlocks
			Lavender 1778	Herod 1758	Tartar 1743 Cypron 1750
				Daughter of 1765	Snap Miss Roan 1753
		Wildgoose 1792	Highflyer 1774	Herod 1758	Tartar 1743 Cypron 1750
				Rachel 1763	Blank 1740 Regulus mare 1751
			Coheiress 1786	Pot-8-os 1773	Eclipse 1764 Sportsmistress 1763
				Manilla 1777	Goldfinder 1764 Old England mare 1766

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38 **Lanercost** 1835	Liverpool 1828	Tramp 1810	Dick Andrews 1797	Joe Andrews	ECLIPSE Amaranda
				Daughter of	Highflyer Cardinal Puff mare
			Daughter of 1803	Gohanna	Mercury Herod mare
				Fraxinella	Trentham Goldfinch's sister
		Daughter of 1822	Whisker 1812	Waxy	Pot-8-os Maria
				Penelope	Trumpator Prunella
			Mandane 1800	Pot-8-os	ECLIPSE Sportsmistress
				Young Camilla	Woodpecker Camilla
	Otis 1820	Bustard 1801	Buzzard 1787	Woodpecker	Herod Miss Ramsden
				Misfortune	Dux Curiosity
			Gipsy 1789	Trumpator	Conductor Brunette
				Postmaster's sister	Herod Snap mare
		Daughter of 1813	Election 1804	Gohanna	Mercury Herod mare
				Chesnut Skim	Woodpecker Silver's dam
			Skysweeper's sister	Highflyer	Herod Rachel
				Daughter of	Eclipse Rosebud
39 **Brutandorf** 1821	Blacklock 1814	Whitelock 1803	Hambletonian	King Fergus	Eclipse Polly
				Daughter of	HIGHFLYER Monimia
			Rosalind	Phenomenon	Herod Frenzy
				Atalanta	Matchem Lass of the Mill
		Daughter of 1799	Coriander	Pot-8-os 1773	Eclipse Sportsmistress
				Lavender	Herod Snap mare
			Wildgoose	HIGHFLYER	Herod Rachel
				Coheiress	Pot-8-os Manilla
	Mandane 1800	Pot-8-os 1773	Eclipse	Marske	Squirt 1732 Hutton's Blacklegs mare
				Spiletta	Regulus Mother Western
			Sportsmistress	Sportsman	Cade Silvertail
				Goldenlocks	Oroonoko Crab mare
		Y. Camilla 1787	Woodpecker	Herod	Tartar Cypron
				Miss Ramsden	Cade Lonsdale B. Arab. mare
			Camilla 1778	Trentham 1766	Sweepstakes 1749 Miss South 1759
				Coquette 1765	Compton Barb. Regulus' sister

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40 **Flatcatcher** 1845 (Brother to Phryne)	Touchstone 1831	Camel 1822	Whalebone 1807	Whalebone 1807	Pot-8-os 1773	Maria 1777
				Penelope 1798	Trumpator 1782	Prunella 1788
			Daughter of 1812	Selim 1802	Buzzard 1787	Alexander mare 1790
				Maiden 1801	Sir Peter 1781	Phenomenon mare 1788
		Banter 1826	Master Henry 1815	Orville 1799	Beningbrough 1791	Evelina 1791
				Miss Sophia 1805	Stamford 1794	Sophia 1798
			Boadicea 1807	Alexander 1782	Eclipse 1764	Grecian Princess 1770
				Brunette	Amaranthus 1766	Mayfly 1771
	Decoy 1830	Filho da Puta 1812	Haphazard 1797	Sir Peter 1784	Highflyer 1774	Papillon 1769
				Miss Hervey 1775	Eclipse 1764	Clio 1760
			Mrs. Barnet 1806	Whalebone 1790	Pot-8-os 1773	Maria 1777
				Daughter of 1788	Woodpecker 1773	Heinel 1771
		Finesse 1815	Peruvian 1806	Sir Peter 1784	Highflyer 1774	Papillon 1769
				Daughter of 1788	Boudrow 1777	Escape's dam 1768
			Violante 1802	John Bull 1789	Fortitude 1777	Xantippe 1779
				Skyscraper's sister 1788	Highflyer 1774	Everlasting 1775
41 **Wild Dayrell** 1852	Ion 1835	Cain 1822	Paulowitz 1813	Sir Paul 1802	Sir Peter	Pewet
				Evelina 1791	Highflyer	Termagant
			Paynator mare 1810	Paynator 1791	Trumpator	Mark Anthony mare
				Daughter of	Delpini	Y. Marske mare
		Margaret 1831	Edmund 1824	Orville 1799	Beningbrough	Evelina
				Emmeline 1817	Waxy	Sorcery
			Medora 1811	Selim 1802	Buzzard	Alexander mare
				Daughter of 1803	Sir Harry, by Sir Peter	Volunteer mare
	Ellen Middleton 1846	Bay Middleton 1833	Sultan 1816	Selim 1802	Buzzard	Alexander mare
				Bacchante 1809	Williamson's mare	Calomel's sister
			Cobweb 1821	Phantom 1808	Walton	Julia
				Filagree 1815	Soothsayer	Web
		Myrrha 1831	Malek 1824	Blacklock 1814	Whitelock	Coriander mare
				Daughter of 1817	Juniper	Sorcerer mare
			Bessy 1815	Young Gouty 1805	Gouty	Dungannon mare
				Grandiflora 1810	Sir Harry Dimsdale	Pipator mare

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42 **Cambuscan** 1861	Newminster 1848	Touchstone 1831	Camel 1822	Whalebone 1807	Waxy Penelope
				Daughter of 1812	Selim Maiden
			Banter 1826	Master Henry 1815	Orville Miss Sophia
				Boadicea 1807	Alexander Brunette
		Beeswing 1833	Dr. Syntax 1811	Paynator 1791	Trumpator Mark Anthony mare
				Daughter of	Beningbrough Jenny Mole
			Daughter of 1817	Ardrossan 1809	John Bull Miss Whip
				Lady Eliza 1813	Whitworth X. Y. Z.'s dam
	The Arrow 1850	Slane 1833	Royal Oak 1823	Catton 1809	Golumpus Lucy Gray
				Daughter of 1818	Smolensko Lady Mary
			Daughter of 1819	Orville 1799	Beningbrough Evelina
				Epsom Lass	Sir Peter Alexina
		Southdown 1836	Defence 1824	Whalebone 1807	Waxy Penelope
				Defiance 1816	Rubens Little Folly
			Feltona 1819	X Y Z 1808	Haphazard Spadille mare
				Janetta 1803	Beningbrough Drone mare
43 **The Palmer** 1864 (Brother to Rosicrucian)	Beadsman 1855	Weatherbit 1842	Sheet Anchor 1832	Lottery 1820	Tramp Mandane
				Morgiana 1820	Muley Miss Stephenson
			Miss Letty 1834	Priam 1827	Emilius Cressida
				Daughter of 1815	Orville Buzzard mare
		Mendicant 1843	Touchstone 1831	Camel 1822	Whalebone Selim mare
				Banter 1826	Master Henry Boadicea
			Lady Moore Carew 1830	Tramp 1810	Dick Andrews Gohanna mare
				Kite 1821	Bustard Olympia
	Madame Eglentine 1857	Cowl 1842	Bay Middleton 1833	Sultan 1816	Selim Bacchante
				Cobweb 1821	Phantom Filagree
			Crucifix 1837	Priam 1827	Emilius Cressida
				Octaviana 1815	Octavian Shuttle mare
		Diversion 1838	Defence 1824	Whalebone 1807	Waxy Penelope
				Defiance 1816	Rubens Little Folly
			Folly 1830	Middleton 1822	Phantom Web
				Little Folly 1806	Highland Fling Harriet

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44 **Trumpeter** 1856	Orlando 1841	Touchstone 1831	Camel 1822	Whalebone	Waxy Penelope
				Daughter of	Selim Maiden
			Banter 1826	Master Henry	Orville Miss Sophia
				Boadicea	Alexander Brunette
		Vulture 1833	Langar 1817	Selim	BUZZARD Alexander mare
				Daughter of	Walton Y. Giantess
			Kite 1821	Bustard	Castrel by BUZZARD Miss Hap
				Olympia	Sir Oliver Scotilla
	Cavatina 1845	Redshank 1833	Sandbeck 1818	Catton	Golumpus Lucy Gray
				Orvillina	Beningbrough Evelina
			Johanna 1813	Selim	Buzzard Alexander mare
				Comical's dam	Skyscraper Dragon mare
		Oxigen 1828	Emilius 1820	Orville	Beningbrough Evelina
				Emily	Stamford Whiskey mare
			Whizgig 1819	Rubens	Buzzard Alexander mare
				Penelope	Trumpator Prunella
45 **Marsyas** 1851	Orlando 1841	Touchstone 1831	Camel 1822	Whalebone	Mary Penelope
				Daughter of	Selim Maiden
			Banter 1826	Master Henry	Orville Miss Sophia
				Boadicea	Alexander Brunette
		Vulture 1833	Langar 1817	Selim	Buzzard Alexander mare
				Daughter of	Walton Y. Giantess
			Kite 1821	Bustard	Castrel by Buzzard Miss Hap
				Olympia	Sir Oliver Scotilla
	Malibran 1830	Whisker 1812	Mary 1790	Pot-8-os	Eclipse Sportsmistress
				Maria	Herod Lisette
			Penelope 1798	Trumpator	Conductor Brunette
				Prunella	Highflyer Promise
		Garcia 1823	Octavian 1807	Stripling 1795	Phenomenon Laura
				Daughter of	Oberon Ranthos mare
			Daughter of 1806	Shuttle	Y. Marske Vauxhall Snap mare
				Katherine 1798	Delpini Paymaster mare

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46 **Harkaway** 1834	Economist 1825	Whisker 1812	Waxy 1790	Pot-8-os	Eclipse Sportsmistress
				Maria	Herod Lisette
			Penelope 1798	Trumpator	Conductor Brunette
				Prunella	Highflyer Promise
		Floranthe 1818	Octavian 1807	Stripling	Phenomenon Laura
				Daughter of	Oberon Ranthos mare
			Caprice 1797	Anvil	Herod Feather mare
				Madcap	Eclipse Blank mare
	Daughter of 1823	Nabocklish 1810	Rugantino 1803	Commodore	Tug Smallhopes
				Buffer's dam	Highflyer Shift
			Butterfly	Bagot	Herod Marotte
				Mother Brown	Trunnion Modesty
		Miss Tooley 1808	Teddy the Grinder 1798	Asparagus	Pot-8-os Justice mare
				Stargazer	Highflyer Miss West
			Lady Jane 1796	Sir Peter	Highflyer Papillon
				Paulina	Florizel Captive
47 **Sir Hercules** 1826	Whalebone 1807	Waxy 1790	Pot-8-os	Eclipse	Marske Spiletta
				Sportsmistress	Sportsman Goldenlocks
			Maria	Herod	Tartar Cypron
				Lisette	Snap Miss Windsor
		Penelope 1798	Trumpator	Conductor	Matchem Snap mare
				Brunette	Squirrel Dove
			Prunella	Highflyer	Herod Rachel
				Promise	Snap Julia
	Peri 1822	Wanderer 1811	Gohanna	Mercury	Eclipse Tartar mare
				Daughter of	Herod Maiden
			Catharine	Woodpecker	Herod Miss Ramsden
				Camilla	Trentham Coquette
		Thalestris 1809	Alexander 1782	Eclipse	Marske Spiletta
				Grecian Princess	William's Forester Coalition Colt mare
			Rival	Sir Peter	Highflyer Papillon
				Hornet	Drone Manilla

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48 **Przedswit** 1872	Knight of the Garter 1864	Prime Minister	Melbourne	Humphrey Clinker	Comus Clinkerina
				Daughter of	Cervantes Golumpus mare
			Pantalonade	Pantaloon	Castrel Idalia
				Festival	CAMEL Michaelmas
		Rosa Bonheur	Touchstone	CAMEL	Whalebone Selim mare
				Banter	Master Henry Boadicea
			Boarding School Miss	Plenipotentiary	Emilius Harriet
				Marpessa	Muley Clare
	The Jewel 1864	Stockwell	The Baron	BIRDCATCHER	Sir Hercules Guiccioli
				Echidna	Economist Miss Pratt
			Pocahontas	Glencoe	Sultan Trampoline
				Marpessa	Muley Clare
		July 1855	BIRDCATCHER	Sir Hercules	Whalebone Peri
				Guiccioli	Bob Booty Flight
			Gillyflower 1847	Venison	Partisan Fawn
				Temerity	King of Clubs Blucher mare
49 **Touchstone** 1831	Camel 1822	Whalebone	Waxy	Pot-8-os	**Eclipse** Sportsmistress
				Maria	Herod Lisette
			Penelope	Trumpator	Conductor Brunette
				Prunella	Highflyer Promise
		Daughter of	Selim	Buzzard	Woodpecker Misfortune
				Daughter of	Alexander Highflyer mare
			Maiden	Sir Peter	Highflyer Papillon
				Daughter of	Phenomenon Matron
	Banter 1826	Master Henry	Orville	Beningbrough	King Fergus Herod mare
				Evelina	Highflyer Termagant
			Miss Sophia	Stamford	Sir Peter Horatia
				Sophia	Buzzard Huncamunca
		Boadicea	Alexander	**Eclipse**	Marske Spiletta
				Grecian Princess	William's Forester Coalition Colt mare
			Brunette	Amaranthus	Old England Second mare
				Mayfly	Matchem Ancaster Starling mare

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50 **Voltigeur** 1847	Voltaire 1826	Blacklock 1814	Whitelock	Hambletonian	King Fergus by Eclipse
				Highflyer Mare	Phenomenon by Herod
			Daughter of 1799	Coriander	Pot-8-os by Eclipse
				Wildgoose	Lavender by Herod
		Daughter of 1816	Phantom 1808	Walton	Highflyer by Herod
				Julia	Coheiress by Pot-8-os
			Daughter of 1802	Overton	Sir Peter by Highflyer
				Gratitude's dam	Arethusa by Dungannon
	Martha Lynn 1837	Mulatto 1823	Catton 1809	Golumpus	Whiskey by Saltram
				Lucy Gray	Y. Giantess by Diomed
			Desdemona 1811	Orville	King Fergus by Eclipse
				Fanny	Herod mare
		Leda 1824	Filho da Puta 1812	Haphazard	Walnut by Highflyer
				Mrs. Barnet.	Ruler mare
			Treasure	Camillus	Gohnnna by Mercnry
				Daughter of	Catherine by Woodpecker
51 **Van Tromp** 1844	Lanercost 1835	Liverpool 1828	Tramp	Dick Andrews	Timothy by Delpini
				Daughter of	Lucy by Florizel
			Daughter of	Whisker	Beningbrough by K. Fergus
				Mandane	Evelina by Highflyer
		Otis 1820	Bustard	Buzzard	Sir Peter by Highflyer
				Gipsy	Diomed mare
			Daughter of	Election	Haphazard
				Skysweeper's sister	Miss Hervey by Eclipse
	Barbelle 1836	Sandbeck 1818	Catton	Golumpus	Waxy by Pot-8-os
				Lucy Gray	Woodpecker mare
			Orvillina	Beningbrough	Hambletonian by King
				Evelina	Faith by Pacolet [Fergus
		Darioletta 1822	Amadis	Don Quixote	Hyacinthus by Coriander
				Fanny	Flora by King Fergus
			Selima	Selim	Joe Andrews
				Daughter of	Highflyer mare
					Gohanna
					Fraxinella
					Waxy
					Penelope
					Pot-8-os
					Y. Camilla
					Woodpecker
					Misfortune
					Trumpator
					Herod mare
					Gohanna
					Chesnut Skim
					Highflyer
					Eclipse mare
					Gohanna
					Catherine
					Timothy
					Lucy
					King Fergus
					Herod mare
					Highflyer
					Termagant
					Eclipse
					Grecian Princess
					Sir Peter
					Diomed mare
					Buzzard
					Alexander mare
					Pot-8-os
					Editha

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52 **Defence** 1824	Whalebone 1807	Waxy	Pot-8-os	Eclipse	Marske Spiletta
				Sportsmistress	Sportsman Goldenlocks
			Maria	Herod	Tartar Cypron
				Lisette	Snap Miss Windsor
		Penelope	Trumpator	Conductor	Matchem Snap mare
				Brunette	Squirel Dove
			Prunella	Highflyer	Herod Rachel
				Promise	Snap Julia
	Defiance 1816	Rubens 1805	Buzzard	Woodpecker	Herod Miss Ramsden
				Misfortune	Dux Curiosity
			Daughter of	Alexander	Eclipse Grecian Princess
				Daughter of	Highflyer Alfred mare
		Little Folly 1806	Highland Fling	Spadille	Highflyer Flora
				Caelia	Herod Proserpine
			Harriet	Volunteer	Eclipse Tartar mare
				Daughter of	Alfred Magnolia

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Saunterer 1854

Irish Birdcatcher 1833

Emmui 1843

Sir Hercules 1826	Whalebone	Mary	Pot-8-os	ECLIPSE	Sportsmistress
			Maria	Herod	Lisette
		Penelope	Trumpator	Conductor	Brunette
			Prunella	Highflyer	Promise
	Peri	Wanderer	Gohanna	Mercury	Herod mare
			Catherine	Woodpecker	Camilla
		Thalestris	Alexander	Eclipse	Grecian Princess
			Rival	Sir Peter	Hornet
Guiccioli 1823	Bob Booty	Chanticleer	Woodpecker	Herod	Miss Ramsden
			Daughter of	ECLIPSE	Rosebud
		Ierne	Bagot	Herod	Marotte
			Daughter of	Gamahoe	Patty
	Flight	Escape	Commodore	Tug	Smallhopes
			Daughter of	Highflyer	Shift
		Y. Heroine	Bagot	Herod	Marotte
			Heroine	Hero	Snap mare
Bay Middleton 1833	Sultan	Selim	Buzzard	Woodpecker	Misfortune
			Daughter of	Alexander	Highflyer mare
		Bacchante	Williamson's Ditto	Sir Peter	Arethusa
			Calomel's sister	Mercury	Herod mare
	Cobweb	Phantom	Walton	Sir Peter	Arethusa
			Julia	Whiskey	Y. Giantess
		Filagree	Soothsayer	Sorcerer	Goldenlocks
			Web	Waxy	Penelope
Blue Devils 1837	Velocipede	Blacklock	Whitelock	Hambletonian	Rosalind
			Daughter of	Coriander	Wildgoose
		Daughter of	Juniper	Whiskey	Jenny Spinner
			Daughter of	Sorcerer	Virgin
	Care	Woful	Mary	Pot-8-os	Maria
			Penelope	Trumpator	Prunella
		Recovery's dam	Rubens	Buzzard	Alexander mare
			Tippitywitchet	Waxy	Hare

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54 Andover 1851	Bay Middleton	Sultan	Selim	Buzzard	Woodpecker Misfortune
				Daughter of	Alexander Highflyer mare
			Bacchante	Williamson's Ditto	Sir Peter Arethusa
				Calomel's sister	Mercury Herod mare
		Cobweb	Phantom	Walton	Sir Peter Arethusa
				Julia	Whiskey Y. Giantess
			Filagree	Soothsayer	Sorcerer Goldenlocks
				Web	Mary Penelope
	Aegis's sister	Defence	Walebone	Mary	Pot-8-os Maria
				Penelope	Trumpator Prunella
			Defiance	Rubens	Buzzard Alexander mare
				Little Folly	Highland Fling Harriet
		Soldier's Joy	The Colonel.	Whisker	Mary Penelope
				Daughter of	Delpini Tipplecyder
			Galatea	Amadis	Don Quixote Fanny
				Paulina	Sir Peter Pewet
55 Plenipotentiary 1831	Emilius 1820	Orville	Beningbrough	King Fergus	Eclipse Polly
				Daughter of	Herod Pyrrha
			Evelina	Highflyer	Herod Rachel
				Termagant	Tantrum Cantatrice
		Emily	Stamford	Sir Peter	Highflyer Papillon
				Horatio	Eclipse Countess
			Daughter of	Whiskey	Saltram Calash
				Grey Dorimant	Dorimant Dizzy
	Harriet 1819	Pericles	Evander	Delpini	Highflyer Countess
				Caroline	Phenomenon Faith
			Daughter of	Precipitate	Mercury Herod mare
				Osprey's sister	Highflyer Snap mare
		Daughter of	Selim	Buzzard	Woodpecker Misfortune
				Daughter of	Alexander Highflyer mare
			Pipylina	Sir Peter	Highflyer Papillon
				Rally	Trumpator Fancy

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56 **Venison** 1833	Partisan 1811	Walton	Sir Peter	Highflyer	Herod Rachel
				Papillon	Snap Miss Cleveland
			Arethusa	Dungannon	Eclipse Aspasia
				Daughter of	Prophet Virago
		Parasol	Pot-8-os	Eclipse	Marske Spiletta
				Sportsmistress	Sportsman Goldenlocks
			Prunella	Highflyer	Herod Rachel
				Promise	Snap Julia
	Fawn 1823	Smolensko	Sorcerer	Trumpator	Conductor Brunette
				Y. Giantess.	Diomed Giantess
			Wowski	Mentor	Justice Sweetbriar's dam
				Maria	Herod Lisette
		Jerboa	Gohanna	Mercury	Eclipse Tartar mare
				Daughter of	Herod Maiden
			Camilla	Trentham	Sweepstakes Miss South
				Coquette	Compton Barb Regulus' sister
57 **Velocipede** 1825	Blacklock	Whitelock	Hambletonian	King Fergus	Eclipse Polly
				Daughter of	Highflyer Monimia
			Rosalind	Phenomenon	Herod Frenzy
				Atalanta	Matchem Lass of the Mill
		Daughter of	Coriander	Pot-8-os	Eclipse Sportsmistress
				Lavender	Herod Snap mare
			Wildgoose	Highflyer	Herod Rachel
				Coheiress	Pot-8-os Manilla
	Daughter of 1817	Juniper	Whiskey	Saltram	Eclipse Virago
				Calash	Herod Teresa
			Jenny Spinner	Dragon	Woodpecker Juno
				Soldier's sister	Eclipse Miss Spindleshanks
		Daughter of	Sorcerer	Trumpator	Conductor Brunette
				Y. Giantess	Diomed Giantess
			Virgin	Sir Peter	Highflyer Papillion
				Daughter of	Pot-8-os Editha

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58 **Pyrrhus I.** 1843	Epirus 1834	Langar	Selim	Buzzard	Woodpecker Misfortune
				Daughter of	Alexander Highflyer mare
			Daughter of	Walton	Sir Peter Arethusa
				Y. Giantess	Diomed Giantess
		Olympia	Sir Oliver	Sir Peter	Highflyer Papillon
				Fanny	Diomed Ambrosia
			Scotilla	Anvil	Herod Feather mare
				Scota	Eclipse Harmony
	Fortress 1836	Defence	Whalebone	Waxy	Pot-8-os Maria
				Penelope	Trumpator Prunella
			Defiance	Rubens	Buzzard Alexander mare
				Little Folly	Highland Fling Harriet
		Jewess	Moses	Whalebone or Seymour	Waxy Penelope
				Daughter of	Gohanna Grey Skim
			Calendula	Camerton	Hambletonian Precipitate mare
				Snowdrop	Highland Fling Daisy by Buzzard
59 **Cowl** 1842	Bay Middleton 1833	Sultan 1816	Selim	Buzzard	Woodpecker Misfortune
				Daughter of	Alexander Highflyer mare
			Bacchante	Williamson's Ditto	Sir Peter Arethusa
				Calomel's sister	Mercury Herod mare
		Cobweb 1821	Phantom	Walton	Sir Peter Arethusa
				Julia	Whiskey Y. Giantess
			Filagree	Soothsayer	Sorcerer Goldenlocks
				Web	Waxy Penelope
	Crucifix 1837	Priam 1827	Emilius	Orville	Beningbrough Evelina
				Emily	Stamford Whiskey mare
			Cressida	Whiskey	Saltram Calash
				Y. Giantess	Diomed Giantess
		Octaviana 1815	Octavian	Stripling	Phenomenon Laura
				Daughter of	Oberon Ranthos mare
			Danghter of 1807	Shuttle	Marske Vauxhall Snap mare
				Zara 1801	Delpini Flora

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60 **Kingston** 1849	Venison 1833	Partisan	Walton	Sir Peter	Highflyer Papillon
				Arethusa	Dungannon Prophet mare
			Parasol	Pot-8-os	Eclipse Sportsmistress
				Prunella	Highflyer Promise
		Fawn	Smolensko	Sorcerer	Trumpator Y. Giantess
				Wowski	Mentor Maria
			Jerboa	Gohanna	Mercury Herod mare
				Camilla	Trentham Coquette
	Queen Anne 1843	Slane	Royal Oak	Catton	Golumpus Lucy Gray
				Daughter of	Smolensko Lady Mary
			Daughter of	Orville	Beningbrough Evelina
				Epsom Lass	Sir Peter Alexina
		Garcia	Octavian	Stripling	Phenomenon Laura
				Daughter of	Oberon Sharper's sister
			Daughter of	Shuttle	Y. Marske Vauxhall Snap mare
				Katherine	Delpini Paymaster mare
61 **Sterling** 1868	Oxford 1857	I. Birdcatcher	Sir Hercules	Whalebone	Waxy Penelope
				Peri	Wanderer Thalestris
			Guiccioli	Bob Booty	Chanticleer Irene
				Flight	Escape Y. Heroine
		Honey Dear	Plenipotentiary	Emilius	Orville Emily by Stamford
				Harriet	Pericles Selim mare
			My Dear	Bay Middleton	Sultan Cobweb
				Miss Letty	Priam Orville mare
	Whisper 1857	Flatcatcher	Touchstone	Camel	Whalebone Selim mare
				Banter	Master Henry Boadicea
			Decoy	Filho da Puta	Haphazard Mrs. Barnet
				Finesse	Peruvian Violante
		Silence	Melbourne	Humphrey Clinker	Comus Clinkerina
				Daughter of	Cervantes Golumpus mare
			Secret	Hornsea	Velocipede Cerberus mare
				Solace	Longwaist Dulcamara by Waxy

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62 **Adonis** 1867	Grimston 1860	Stockwell	The Baron	Birdcatcher	Sir Hercules Guiccioli
				Echidna	Economist Miss Pratt
			Pocahontas	Glencoe	Sultan Trampoline
				Marpessa	Muley Clare
		La Fille du Régiment	Orlando	Touchstone	Camel Banter
				Vulture	Langar Kite
			Vivandière	Voltaire	Blacklock Phantom mare
				Martha Lynn	Mulatto Leda
	Legerdemain 1851	Sleight of Hand	Pantaloon	Castrel	Buzzard Alexander mare
				Idalia	Peruvian Musidora
			Decoy	Filho da Puta	Haphazard Mrs. Barnet
				Finesse	Peruvian Violante
		Galloper's dam 1843	Hampton 1833	Sultan	Selim Bacchante
				Rachel	Whalebone Moses' dam
			Daughter of	Comus	Sorcerer Houghton Lass
				Speaker's sister	Camillus [1809 Prime Minister's sister
63 **Chamant** 1874	Mortemer 1865	Compiégne	Fitz Gladiator	Gladiator	Partisan Pauline
				Zarah	Reveller Rubens mare
			Maid of Hart	The Provost	Saddler Rebecca
				Martha Lynn	Mulatto Leda
		Comtesse	Nuncio or The Baron	Plenipo	Emilius Harriet
				Ally	Partisan Jest
			Eusebia	Emilius	Orville Emily
				Mangel-Wurzel	Merlin Morel
	Araucaria 1862	Ambrose	Touchstone	Camel	Whalebone Selim mare
				Banter	Master Henry Boadicea
			Annette	Priam	Emilius Cressida
				Potentate's dam	Don Juan Moll in the Wad
		Pocahontas	Glencoe	Sultan	Selim Bacchante
				Trampoline	Tramp Web
			Marpessa	Muley	Orville Eleanor
				Clare	Marmion Harpalice

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64 **Robert the Devil** 1877	Bertram 1869	The Duke 1862	Stockwell 1849	The Baron	BIRDCATCHER
					Echidna
				Pocahontas	Glencoe
					Marpessa
			Bay Celia 1851	Orlando	Touchstone
					Vulture
				Hersey	Glaucus
					Hester
		Constance 1852	Faugh-a-Ballagh 1841	Sir Hercules	Whalebone
					Peri
				Guiccioli	Bob Booty
					Flight
			Milkmaid 1843	Glaucus	Partisan
					Nanine
				Dame Durdan	Banker
					Beningbrough mare
	Cast-off 1866	Promised Land 1856	Jericho 1842	Jerry	Smolensko
					Louisa
				Turquoise	Selim
					Pope Joan
			Glee 1843	Touchstone	Camel
					Banter
				Harmony	Reveller
					Orville mare
		Wanona 1854	Womersley 1849	BIRDCATCHER	Sir Hercules
					Guiccioli
				Cinizelli	Touchstone
					Brocade
			Daughter of 1842	Hampton	Sultan
					Rachel
				Daughter of 1824	Cervantes
					Camillus mare
65 **West Australian** 1850	Melbourne 1834	Humphrey Clinker	Comus	Sorcerer	Trumpator
					Y. Giantess
				Houghton Lass	Sir Peter
					Alexina
			Clinkerina	Clinker	Sir Peter
					Hyale
				Pewet	Tandem
					Termagant
		Daughter of	Cervantes	Don Quixote	Eclipse
					Grecian Princess
				Evelina	Highflyer
					Termagant
			Daughter of	Golumpus	Gohanna
					Katherine
				Daughter of	Paynator
					St. George mare
	Mowerina 1843	Touchstone	Camel	Whalebone	WAXY
					PENELOPE
				Daughter of	Selim
					Maiden
			Banter	Master Henry	Orville
					Miss Sophia
				Boadicea	Alexander
					Brunette
		Emma	Whisker	WAXY	Pot-8-os
					Maria
				PENELOPE	Trumpator
					Prunella
			Gibside Fairy	Hermes	Mercury
					Rosina
				Vicissitude	Pipator
					Beatrice

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66 **Stockwell** 1849 Brother to Rataplan 1850	The Baron 1842	Birdcatcher	Sir Hercules	Whalebone	Mary Penelope
				Peri	Wanderer Thalestris
			Guiccioli	Bob Booty	Chanticleer Ierne
				Flight	Escape Y. Heroine
		Echidna	Economist	Whisker	Waxy Penelope
				Floranthe	Octavian Caprice
			Miss Pratt	Blacklock	Whitelock Coriander mare
				Gadabout	Orville Minstrel
	Pocahontas 1837	Glencoe	Sultan	Selim	Buzzard Alexander mare
				Bacchante	Williamson's Ditto Mercury mare
			Trampoline	Tramp	Dick Andrews Gohanna mare
				Web	Mary Penelope
		Marpessa	Muley	Orville	Beningbrough Evelina
				Eleanor	WHISKEY Y. Giantess
			Clare	Marmion	WHISKEY Y. Noisette
				Harpalice	Gohanna Amazon
67 **Paragone** 1843	Touchstone 1831	Camel 1822	Whalebone	Waxy	Pot-8-os Maria
				Penelope	Trumpator Prunella
			Daughter of	Selim	Buzzard Alexander mare
				Maiden	Sir Peter Phenomenon mare
		Banter 1826	Master Henry	Orville	Beningbrough Evelina
				Miss Sophia	Stamford Sophia
			Boadicea	Alexander	Eclipse Grecian Princess
				Brunette	Amaranthus Mayfly
	Hoyden 1837	Tomboy 1829	Jerry	Smolensko	Sorcerer Wowski
				Louisa	Orville Thomasina
			Beeswing's dam	Ardrossan	John Bull Miss Wip
				Lady Eliza	Whitworth X. Y. Z.'s dam
		Rochana 1831	Velocipede	Blacklock	Whitelock Coriander mare
				Daughter of	Juniper Sorcerer mare
			Miss Garforth	Walton	Sir Peter Arethusa
				Daughter of	Hyacinthus Zara

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68 **St. Alban's** 1857 Brother to Savernake 1863	Stockwell 1849	The Baron	Birdcatcher	Sir Hercules	Whalebone Peri
				Guiccioli	Bob Booty Flight
			Echidna	Economist	Whisker Floranthe
				Miss Pratt	Blacklock Gadabout
		Pocahontas	Glencoe	Sultan	Selim Bacchante
				Trampoline	Tramp Web
			Marpessa	Muley	Orville Eleanor
				Clare	Marmion Harpalice
	Bribery 1851	The Libel	Pantaloon	Castrel	Buzzard Alexander mare
				Idalia	Peruvian Musidora
			Pasquinade	Camel	Whalebone Selim mare
				Banter	Master Henry Boadicea
		Splitvote	St. Luke	Bedlamite	Welbeck Maniac
				Eliza Leeds	Comus Helen
			Electress	Election	Gohanna Chesnut Skim
				Daughter of	Stamford Miss July
69 **Macaroni** 1860	Sweetmeat 1842	Gladiator	Partisan	Walton	Sir Peter Arethusa
				Parasol	Pot-8-os Prunella
			Pauline	Moses	Whalebone or Seymour Gohanna mare
				Quadrille	Selim Canary Bird
		Lollypop	Starch or Voltaire	Waxy Pope	Waxy Prunella
				Miss Stavely	Shuttle Drone mare 1793
			Belinda	Blacklock	Whitelock Coriander mare
				Wagtail	Prime Minister 1810 Orville mare
	Jocose 1843	Pantaloon	Castrel	Buzzard	Woodpecker Misfortune by Dux
				Daughter of	Alexander Highflyer mare
			Idalia	Peruvian	Sir Peter Boudrow mare
				Musidora	Meteor Highflyer mare
		Banter	Master Henry	Orville	Beningbrough Evelina
				Miss Sophia	Stamford Sophia
			Boadicea	Alexander	Eclipse Grecian Princess
				Brunette	Amaranthus Mayfly

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70 **The Duke** 1862	Stockwell 1849	The Baron	Birdcatcher	Sir Hercules	Whalebone / Peri
				Guiccioli	Bob Booty / Flight
			Echidna	Economist	Whisker / Floranthe
				Miss Pratt	Blacklock / Gadabout
		Pocahontas	Glencoe	Sultan	Selim / Bacchante
				Trampoline	Tramp / Web
			Marpessa	Muley	Orville / Eleanor
				Clare	Marmion / Harpalice
	Bay Celia 1851	Orlando	Touchstone	CAMEL	Whalebone / Selim mare
				Banter	Master Henry / Boadicea
			Vulture	Langar	Selim / Walton mare
				Kite	Bustard / Olympia
		Hersey	Glaucus	Partisan	Walton / Parasol
				Nanine	Selim / Bizarre
			Hester	CAMEL	Whalebone / Selim mare
				Monimia	Muley / Precipitate mare
71 **Blair Athol** 1861 Brother to Breadalbane 1862	Stockwell 1849	The Baron	Birdcatcher	Sir Hercules	Whalebone / Peri
				Guiccioli	Bob Booty / Flight
			Echidna	Economist	Whisker / Floranthe
				Miss Pratt	Blacklock / Gadabout
		Pocahontas	Glencoe	Sultan	Selim / Bacchante
				Trampoline	Tramp / Web
			Marpessa	Muley	Orville / Eleanor
				Clare	Marmion / Harpalice
	Blink Bonny 1854	Melbourne	Humphrey Clinker	Comus	Sorcerer / Houghton Lass
				Clinkerina	Clinker / Pewet
			Daughter of	Cervantes	Don Quixote / Evelina
				Daughter of	Golumpus / Paynator mare
		Queen Mary	Gladiator	Partisan	Walton / Parasol
				Pauline	Moses / Quadrille
			Daughter of	Plenipotentiary	Emilius / Harriet by Pericles
				Myrrha	Whalebone / Gift

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72 **Lord Lyon** 1863	Stockwell 1849	The Baron	Birdcatcher	Sir Hercules	Whalebone
				Guiccioli	Peri
					Bob Booty
					Flight
			Echidna	Economist	Whisker
					Floranthe
				Miss Pratt	Blacklock
					Gadabout
		Pocahontas	Glencoe	Sultan	Selim
					Bacchante
				Trampoline	Tramp
					Web
			Marpessa	Muley	Orville
					Eleanor
				Clare	Marmion
					Harpalice
	Paradigm 1852	Paragone	Touchstone	Camel	Whalebone
					Selim mare
				Banter	Master Henry
					Boadicea
			Hoyden	Tomboy	Jerry
					Ardrossan mare
				Rocbana	Velocipede
					Miss Garforth
		Ellen Horne	Redshank	Sandbeck	Catton
					Orvillina
				Johanna	Selim
					Skyscraper mare
			Delhi	Plenipotentiary	Emilius
					Harriet
				Fawn Junior	Waxy
					Fawn
73 **Lollypop** 1873	Souvenir 1859	Caravan 1834	Camel	Whalebone	Waxy
					Penelope
				Daughter of	Selim
					Maiden
			Wings	The Flyer	Vandyke Junior
					Azalie
				Oleander	Sir David
					Whiskey mare
		Emilia 1844	Y. Emilius	Emilius	Orville
					Emily
				Cobweb	Phantom
					Filagree
			Juanita	Lottery	Tramp
					Mandrake
				Xarifa	Moses
					Rubens
	Sugarstick 1865	Stockwell 1849	The Baron	Birdcatcher	Sir Hercules by Whalebone
					Guiccioli
				Echidna	Economist
					Miss Pratt
			Pocahontas	Glencoe	Sultan
					Trampoline
				Marpessa	Muley
					Clare
		Ratlagoom 1857	Sweetmeat	Gladiator	Partisan
					Pauline
				Lollypop	Starch or Voltaire
					Belinda
			Biddy	Bran	Humphrey Clinker
					Velvet
				Idalia	Peruvian
					Musidora

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74 **Favonius** 1868	Parmesan 1857	Sweetmeat 1842	Gladiator 1833	Partisan 1811	Walton Parasol
				Pauline 1826	Moses Quadrille
			Lollypop 1836	Starch 1819 (or Voltaire)	Waxy Pope Miss Stavely
				Belinda 1825	Blacklock Wagtail
		Gruyère 1851	Verulam 1833	Lottery 1820	Tramp Mandane
				Wire 1811	WAXY Penelope
			Jennala 1844	Touchstone 1831	Camel Banter
				Emma 1824	Whisker by WAXY Gibside Fairy
	Zephyr 1862	King Tom 1851	Harkaway 1834	Economist 1825	Whisker Floranthe
				Daughter of 1823	Nabocklish Miss Tooley
			Pocahontas 1837	Glencoe 1831	Sultan Trampoline
				Marpessa 1830	Muley Clare
		Mentmore Lass 1850	Melbourne 1834	Humphrey Clinker 1822	Comus Clinkerina
				Daughter of 1825	Cervantes Golumpus mare
			Esmeralda 1841	Defence 1824	Whalebone by WAXY Defiance
				Emilana 1829	Emilius Whisker mare
75 **Hermit** 1864	Newminster 1848	Touchstone 1831	Camel 1822	Whalebone 1807	Waxy 1790 Penelope 1798
				Daughter of 1812	Selim 1802 Maiden 1801
			Banter 1826	Master Henry 1815	Orville 1799 Miss Sophia 1805
				Boadicea 1807	Alexander 1782 Brunette
		Beeswing 1833	Dr. Syntax 1811	Paynator 1791	Trumpator 1782 Mark Anthony mare
				Daughter of	Beningbrough Jenny Mole
			Daughter of 1817	Ardrossan 1809	John Bull Miss Whip 1793
				Lady Eliza 1813	Whitworth 1805 Spadille mare 1793
	Seclusion 1857	Tadmor 1846	Ion 1835	Cain 1822	Paulowitz 1813 Paynator mare 1810
				Margaret 1831	Edmund 1824 Medora 1811
			Palmyra 1838	SULTAN 1816	Selim 1802 Bacchante 1809
				Hester 1832	Camel 1822 Monimia 1821
		Miss Sellon 1851	Cowl 1842	Bay Middleton 1833	SULTAN 1816 Cobweb 1821
				Crucifix 1837	Priam Octaviana 1815
			Belle Dame 1839	Belshazzar 1830	Blacklock 1814 Manuella 1809
				Ellen 1831	Starch 1819 Cuirass 1823

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76 **Kisber** 1873	Buccaneer 1857	Wild Dayrell 1852	Ion 1835	Cain 1822	Paulowitz 1813 Paynator mare 1810
				Margaret 1831	EDMUND 1824 by Orville Medora 1811
			Ellen Middleton 1846	Bay Middleton 1833	Sultan 1816 Cobweb 1821
				Myrrha 1831	Malek 1824 Bessy 1815
		Daughter of 1841	Little Red Rover 1827	Tramp 1810	Dick Andrews 1797 Gohanna mare 1803
				Miss Syntax 1814	Paynator 1791 Beningbrough mare
			Eclat 1830	EDMUND 1824	Orville 1799 Emmeline 1817
				Squib 1820	Soothsayer 1808 Berenice 1805
	Mineral Own sister to Mandragora 1863	Rataplan 1850	The Baron 1842	BIRDCATCHER 1833	Sir Hercules 1826 Guiccioli 1823
				Echidna 1838	Economist 1825 Miss Pratt 1825
			Pocahontas 1837	Glencoe 1831	Sultan 1816 Trampoline 1825
				Marpessa 1830	Muley 1819 Clare 1824
		Manganese 1833	BIRDCATCHER 1833	Sir Hercules 1826	Whalebone 1807 Peri 1822
				Guiccioli 1823	Bob Booty 1804 Flight 1809
			Moonbeam 1838	Tomboy 1829	Jerry 1821 Ardrossan mare 1817
				Lunatic 1818	Prime Minister Maniac 1806
77 **Lord Clifden** 1860	Newminster 1848	Touchstone 1831	Camel	Whalebone	Waxy Penelope
				Daughter of	Selim Maiden
			Banter	Master Henry	Orville Miss Sophia
				Boadicea	Alexander Brunette
		Beeswing 1833	Dr. Syntax	Paynator	Trumpator Mark Anthony mare
				Daughter of	Beningbrough Jenny Mole
			Daughter of	Ardrossan	John Bull Miss Whip
				Lady Eliza	Whitworth Spadille mare
	The Slave 1852	Melbourne 1834	Humphrey Clinker	Comus	Sorcerer Houghton Lass
				Clinkerina	Clinker Pewet
			Daughter of	Cervantes	Don Quixote Evelina
				Daughter of	Golumpus Paynator mare
		Voley 1845	Voltaire 1826	Blacklock 1814	Whitelock Coriander mare
				Daughter of	Phantom Overton mare
			Martha Lynn 1836	Mulatto 1823	Catton Desdemona by Orville
				Leda 1824	Filho da Puta Treasure

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78 **Teddington** 1848	Orlando 1841	Touchstone 1831	Camel	Whalebone	Waxy
				Daughter of	Penelope by Trumpator
			Banter	Master Henry	SELIM
				Boadicea	Maiden
		Vulture 1833	Langar	SELIM	Orville
				Daughter of	Miss Sophia
			Kite	Bustard	Alexander
				Olympia	Brunette
	Miss Twickenham 1838	Rockingham 1830	Humphrey Clinker	Comus	Buzzard
				Clinkerina	Alexander mare
			Medora	Swordsman	Bustard
				Daughter of	Olympia
		Electress 1819	Election	Gohanna	Sorcerer
				Chesnut Skim	Houghton Lass
			Daughter of	Stamford	Clinker
				Miss Judy	Pewet
79 **King Tom** 1851	Harkaway 1834	Economist	Whisker	Wary	Prizefighter
				Penelope	Zara
			Floranthe	Octavian	Trumpator
				Caprice	Peppermint
		Daughter of	Nabocklish	Rugantino	Mercury
				Butterfly	HEROD mare
			Miss Tooley	Teddy the Grinder	Woodpecker
				Lady Jane	HEROD mare
	Pocahontas 1837	Glencoe	Sultan	Selim	Sir Peter
				Bacchante	Horatia
			Trampoline	Tramp	Alfred
				Web	Manilla
		Marpessa	Muley	Orville	Pot-8-os
				Eleanor	Maria
			Clare	Marmion	Trumpator
				Harpalice	Prunella
					Stripling
					Oberon mare
					Anvil
					Madcap
					Commodore
					Highflyer mare
					Bagot
					Mother Brown
					Asparagus
					Stargazer
					Sir Peter
					Pauline
					Buzzard
					Alexander mare
					Williamson's Ditto
					Mercury mare
					Dick Andrews
					Gohanna mare
					Wary
					Penelope
					Beningbrough
					Evelina
					Whiskey
					Y. Giantess
					Whiskey
					Y. Noisette
					Gohanna
					Amazon

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80 **George Frederick** 1871 (Brother to Albert Victor)	Marsyas 1851	Orlando	Touchstone	Camel	WHALEBONE by Mary Selim mare
				Banter	Master Henry Boadicea by Alexander
			Vulture	Langar	Selim Walton mare
				Kite	Bustard Olympia
		Malibran 1830	Whisker	Mary	Pot-8-os Maria
				Penelope	Trumpator Prunella
			Garcia	Octavian	Stripling Oberon mare
				Daughter of	Shuttle Katherine
	Princess of Wales 1862	Stockwell	The Baron	Birdcatcher	Sir Hercules by WHALE-BONE Guiccioli
				Echidna	Economist Miss Pratt
			Pocahontas	Glencoe	Sultan Trampoline
				Marpessa	Muley Clare
		The Bloomer	Melbourne	Humphrey Clinker	Comus Clinkerina
				Daughter of	Cervantes Golumpus mare
			Lady Sarah	Velocipede	Blacklock Coriander mare
				Lady Moore Carew	Tramp Kite
81 **Adventurer** 1859	Newminster 1848	Touchstone	Camel	Whalebone	Waxy Penelope by Trumpator
				Daughter of	Selim Maiden
			Banter	Master Henry	Orville by Beningbrough Miss Sophia
				Boadicea	Alexander Brunette
		Beeswing	Dr. Syntax	Paynator	Trumpator Mark Anthony mare
				Daughter of	Beningbrough Jenny Mole
			Daughter of	Ardrossan	John Bull Miss Whip
				Lady Eliza	Whitworth X. Y. Z.'s dam
	Palma 1840	Emilius	Orville	Beningbrough	King Fergus Herod mare
				Evelina	Highflyer Termagant
			Emily	Stamford	Sir Peter Horatia
				Daughter of	Whiskey Grey Dorimant
		Francesca	Partisan	Walton	Sir Peter Arethusa
				Parasol	Pot-8-os Prunella
			Miss Fanny's dam	Orville	Beningbrough Evelina
				Daughter of	Buzzard Hornpipe

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82 **Rustic** 1863	Stockwell 1849	The Baron	Birdcatcher	Sir Hercules	Whalebone Peri
				Guiccioli	Bob Booty Flight
			Echidna	Economist	Whisker Floranthe
				Miss Pratt	Blacklock Gadabout
		Pocahontas	Glencoe	Sultan	Selim Bacchante
				Trampoline	Tramp Web
			Marpessa	Muley	Orville Eleanor
				Clare	Marmion Harpalice
	Village Lass 1851	Pyrrhus the First	Epirus	Langar	Selim Walton mare
				Olympia	Sir Oliver Scotilla
			Fortress	Defence	Whalebone Defiance
				Jewess	Moses Calendula
		Maid of Hart	The Provost	The Saddler	Waverley Castrellina
				Rebecca	Lottery Cervantes mare
			Martha Lynn	Mulatto	Catton Desdemona by Orville
				Leda	Filho da Puta Treasure by Camillus
83 **Necklace** 1860	The Fallow Buck 1845	Venison 1833	Partisan 1811	Walton 1799	Sir Peter Arethusa
				Parasol 1800	Pot-8-os Prunella
			Fawn 1823	Smolensko 1810	Sorcerer Wowski
				Jerboa 1803	Gohanna Camilla
		Plenary 1837	Emilius 1820	Orville 1799	Beningbrough Evelina
				Emily 1810	Stamford Whiskey mare
			Harriet 1819	Pericles 1809	Evander Precipitate mare
				Daughter of 1812	Selim Pipylina
	Bracelet 1852	Touchstone 1831	Camel 1822	Whalebone 1807	Waxy Penelope
				Daughter of 1812	Selim Maiden
			Banter 1826	Master Henry 1815	Orville Miss Sophia
				Boadicea 1807	Alexander Brunette
		Manacle 1839	Emilius 1820	Orville 1799	Beningbrough Evelina
				Emily 1810	Stamford Whiskey mare
			Y. Maniac 1826	Tramp 1810	Dick Andrews Gohanna mare
				Maniac 1806	Shuttle Anticipation

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84 **Isoline** 1860	Ethelbert 1850	Faugh-a-Ballagh	**Sir Hercules** 1826	Whalebone 1807	Waxy Penelope
				Peri 1822	Wanderer Thalestris
			Guiccioli 1823	Bob Booty 1804	Chanticleer Ierne
				Flight 1809	Escape Y. Heroine
		Espoir 1841	Liverpool 1828	Tramp 1810	Dick Andrews Gohanna mare
				Daughter of 1822	Whisker Mandane
			Esperance 1836	Lapdog 1823	Whalebone Canopus mare
				Grisette 1825	Merlin Coquette
	Bassishaw 1847	Prime Warden 1834	Cadland 1825	Andrew 1816	Orville Morel
				Sorcery 1808	Sorcerer Cobbea
			Zarina 1827	Morisco 1819	Muley Aquilina
				Ina 1821	Smolensko Morgiana
		Miss Whinney 1838	**Sir Hercules** 1826	Whalebone 1807	Waxy Penelope
				Peri 1822	Wanderer Thalestris
			Euphrosyne 1819	Comus 1809	Sorcerer Houghton Lass
				Daughter of	Shuttle Drone mare
85 **Feu de Joie** 1859	Longbow 1849	Ithuriel	**Touchstone**	Camel	Whalebone Selim mare
				Banter	Master Henry Boadicea
			Verbena	Velocipede	Blacklock Juniper mare
				Rosalba	Milo Rubens' sister
		Miss Bowe	Catton	Golumpus	Gohanna Catherine
				Lucy Gray	Timothy Lucy
			Wagtail's dam	Orville	Beningbrough Evelina
				Miss Grimstone	Weasel Ancaster mare
	Jeu d'Esprit 1852	Flatcatcher	**Touchstone**	Camel	Whalebone Selim mare
				Banter	Master Henry Boadicea
			Decoy	Filho da Puta	Haphazard Mrs. Barnet
				Finesse	Peruvian Violante
		Extempore 1840	Emilius	Orville	Beningbrough Evelina
				Emily	Stamford Whiskey mare
			Maria	Whisker	Waxy Penelope
				Gibside Fairy	Hermes Vicissitude

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86 **Das Veilchen** 1868	Cavendish 1856	Voltigeur 1847	Voltaire 1826	Blacklock 1814	Whitelock Coriander mare 1799
				Daughter of 1816	Phantom 1808 Overton mare 1802
			Martha Lynn 1837	Mulatto 1823	Catton 1809 Desdemona 1811
				Leda 1824	Filho da Puta 1812 Treasure
		Countess of Burlington 1850	**Touchstone** 1831	Camel 1822	Whalebone 1807 Selim mare 1812
				Banter 1826	Master Henry 1815 Boadicea 1807
			Lady Emily 1842	Muley Moloch 1830	Muley 1810 Nancy 1813
				Caroline 1828	Whisker 1812 Gibside Fairy 1811
	Vanessa 1861	Newminster 1848	**Touchstone** 1831	Camel 1822	Whalebone 1807 Selim mare 1812
				Banter 1826	Master Henry 1815 Boadicea 1807
			Beeswing 1833	Dr. Syntax 1811	Paynator 1791 Jenny Mole
				Daughter of 1817	Ardrossan 1809 Lady Eliza 1813
		The Heiress 1853	Birdcatcher 1833	Sir Hercules 1826	Whalebone 1807 Peri 1822
				Guiccioli 1823	Bob Booty 1804 Flight 1809
			Inheritress 1840	The Saddler 1828	Waverley 1817 Castrellina 1823
				Executrix 1836	Liverpool 1828 Handmaiden 1817
87 **Seclusion** 1857	Tadmor 1846	Ion 1835	Cain 1822	Paulowitz 1813	Sir Paul Evelina
				Daughter of 1810	Paynator Delpini mare
			Margaret 1831	Edmund 1824	Orville Emmeline
				Medora 1811	Selim Sir Harry mare
		Palmyra 1838	**Sultan** 1816	Selim 1802	Buzzard Alexander mare
				Bacchante 1809	Williamson's Ditto Mercury mare
			Hester 1832	Camel 1822	Whalebone Selim mare
				Monimia 1821	Muley Precipitate mare
	Miss Sellon 1851	Cowl 1842	Bay Middleton 1833	**Sultan** 1816	Selim 1802 Bacchante 1809
				Cobweb 1821	Phantom 1808 Filagree 1815
			Crucifix 1837	Priam 1827	Emilius Cressida
				Octaviana 1815	Octavian 1807 Shuttle mare
		Belle Dame 1839	Belshazzar 1830	Blacklock 1814	Whitelock Coriander mare
				Manuella 1809	Dick Andrews Mandane
			Ellen 1831	Starch 1819	Waxy Pope Miss Stavely
				Cuirass 1823	Oiseau Castanea

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88 **Ghuznee** 1838	Pantaloon 1824	Castrel 1801	Buzzard 1787	Woodpecker	Herod Miss Ramsden
				Misfortune	Dux Curiosity
			Daughter of 1790	Alexander	Eclipse Grecian Princess
				Daughter of	Highflyer Alfred mare
		Idalia 1815	Peruvian 1806	Sir Peter	Highflyer Papillon
				Daughter of	Boudrow Escape's dam
			Musidora 1804	Meteor	Eclipse Merlin mare
				Maid of all Work	Highflyer Syphon mare
	Languish 1830	Cain 1822	Paulowitz 1813	Sir Paul	Sir Peter Pewet
				Evelina	Highflyer Termagant
			Daughter of 1810	Paynator	Trumpator Mark Anthony mare
				Daughter of	Delpini Y. Marske mare
		Lydia 1822	Poulton 1805	Sir Peter	Highflyer Papillon
				Fanny	Diomed Ambrosia
			Variety 1808	Hyacinthus	Coriander Rosalind
				Swordsman's sister	Weasel Turk mare
89 **Emma** 1824	Whisker 1812	Waxy 1790	Pot-8-os	Eclipse	Marske Spiletta
				Sportsmistress	Sportsman Goldenlocks
			Maria	Herod	Tartar Cypron
				Lisette	Snap Miss Windsor
		Penelope 1798	Trumpator	Conductor	Matchem Snap mare
				Brunette	Squirrel Dove
			Prunella	Highflyer	Herod Rachel
				Promise	Snap Julian
	Gibside Fairy 1811	Hermes 1790	Mercury	Eclipse	Marske Spiletta
				Daughter of	Tartar Mogul mare
			Rosina	Woodpecker	Herod Miss Ramsden
				Petworth	Precipitate Woodpecker mare
		Vicissitude 1800	Pipator	Imperator	Conductor Herod mare
				Brunette	Amaranthus Mayfly
			Beatrice	Sir Peter	Highflyer Papillon
				Pyrrha	Matchem Duchess

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90 **Snowdrop** 1843	Heron 1833	Bustard 1813	Castrel	Buzzard	Woodpecker Misfortune
				Daughter of	Alexander Highflyer mare
			Miss Hap	Shuttle	Y. Marske Vauxhall Snap mare
				Haphazard's sister	Sir Peter Miss Hervey
		Daughter of 1827	Orville	**Beningbrough**	King Fergus Herod mare
				Evelina	Highflyer Termagant
			Rosanne.	Dick Andrews	Joe Andrews Highflyer mare
				Rosette	Beningbrough Rosamond
	Fairy 1823	Filho da Puta 1812	Haphazard	Sir Peter	Highflyer Papillon
				Miss Hervey	Eclipse Clio
			Mrs. Barnet	Waxy	Pot-8-os Maria
				Daughter of	Woodpecker Heinel
		Britannia 1813	Orville	**Beningbrough**	King Fergus Herod mare
				Evelina	Highflyer Termagant
			Daughter of	Coriander	Pot-8-os Levander
				Swordsman's sister	Weasel Turk mare
91 **Canezou** 1844	Melbourne 1834	Humphrey Clinker	Comus	**Sorcerer**	Trumpator Y. Giantess
				Houghton Lass	Sir Peter Alexina
			Clinkerina	Clinker	Sir Peter Hyale
				Pewet	Tandem Termagant
		Daughter of	Cervantes	Don Quixote	Eclipse Grecian Princess
				Evelina	Highflyer Termagant
			Daughter of	Golumpus	Gohanna Catherina
				Daughter of	Paynator Zodiac's sister
	Madame Pelerine 1832	Velocipede	Blacklock	Whitelock	Hambletonian Rosalind
				Daughter of	Coriander Wildgoose
			Daughter of	Juniper	Whiskey Hospitality's sister
				Daughter of	Sorcerer Sir Peter mare
		Baleine	Whalebone	Waxy	Pot-8-os Maria
				Penelope	Trumpator Prunella
			Vale Royal	**Sorcerer**	Trumpator Y. Giantess
				Orangeade	Whiskey Orange Bud

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92 **Alice Hawthorn** 1838	Muley Muloch 1830	Muley	Orville	Beningbrough	King Fergus Herod mare
				Ebelina	Highflyer Termagant
			Eleanor	Whiskey	Saltram Calash
				Y. Giantess	Diomed Giantess
		Nancy	Dick Andrews	Joe Andrews	Eclipse Amaranda
				Daughter of	Highflyer Cardinal Puff mare
			Spitfire	Beningbrough	King Fergus Herod mare
				Daughter of	Y. Sir Peter Engineer mare
	Rebecca 1831	Lottery	Tramp	Dick Andrews	Joe Andrews Highflyer mare
				Daughter of	Gohanna Fraxinella
			Mandane	Pot-8-os	Eclipse Sportsmistress
				Y. Camilla	Woodpecker Camilla
		Daughter of	Cervantes	Don Quixote	Eclipse Grecian Princess
				Ebelina	Highflyer Termagant
			Anticipation	Beningbrough	King Fergus Herod mare
				Expectation	Herod Skim mare
93 **Newminster** 1848	Touchstone 1831	Camel 1822	Whalebone 1807	Waxy	Pot-8-os Maria
				Penelope	Trumpator Prunella
			Daughter of 1812	Selim	Buzzard Alexander mare
				Maiden	Sir Peter Phenomenon mare
		Banter 1826	Master Henry 1815	Orville	Beningbrough Evelina
				Miss Sophia	Stamford Sophia
			Boadicea 1807	Alexander	Eclipse Grecian Princess
				Brunette	Amaranthus Mayfly
	Beeswing 1833	Dr. Syntax 1811	Paynator 1791	Trumpator	Conductor Brunette
				Daughter of	Mark Anthony Signora
			Daughter of	Beningbrough	King Fergus Herod mare
				Jenny Mole	Carbuncle Prince T. Quassow mare
		Daughter of 1817	Ardrossan 1809	John Bull	Fortitude Xantippe
				Miss Whip	Volunteer Wimbleton
			Lady Eliza 1813	Whitworth	Agonistes Jupiter mare
				X. Y. Z.'s dam	Spadille Sylvia

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94 **Knowsley's Dam** 1853	Orlando 1841	Touchstone 1833	**Camel** 1822	Whalebone	
				Selim mare	
			Banter 1826	Master Henry	
				Boadicea	
		Vulture 1834	Langar 1817	Selim	
				Walton mare	
			Kite 1821	Bustard	
				Olympia	
	Brown Bess 1844	**Camel** 1822	Whalebone 1807	Waxy	
				Penelope	
			Daughter of 1812	Selim	
				Maiden	
		Daughter of 1829	Brutandorf 1821	Blacklock	
				Mandane	
			Mrs. Cruikshanks	Welbeck	
				Tramp's dam	
95 **Kincsem** 1874	Cambuscan 1861	Newminster 1848	Touchstone 1831	Camel	Whalebone
					Selim mare
			Banter	Master Henry	
				Boadicea	
		Beeswing 1833	Dr. Syntax	Paynator	
				Beningbrough mare	
			Daughter of	Ardrossan	
				Lady Eliza	
		The Arrow 1850	**Slane** 1833	Royal Oak	Catton
					Smolensko mare
			Daughter of	Orville	
				Epsom Lass	
		Southdown 1836	Defence	Whalebone	
				Defiance	
			Feltona	X. Y. Z.	
				Janetta	
	Water Nymph 1860	Cotswold 1853	Newcourt 1840	Sir Hercules	Whalebone
					Peri by Wanderer
			Sylph	Spectre	
				Fanny Leigh	
		Aurora 1848	Pantaloon	Castrel	
				Idalia	
			Lady	Ziganee by Tramp	
				Octaviana	
		Mermaid 1853	Melbourne 1839	Humphrey Clinker	Comus
					Clinkerina
			Daughter of	Cervantes	
				Golumpus mare	
		Seaweed 1841	**Slane**	Royal Oak	
				Orville mare	
			Seakale	Camel	
				Seabreeze	

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96 **Bal Gal** 1878	Adventurer 1859	Newminster 1848	**Touchstone** 1831	Camel	Whalebone Selim mare
				Banter	Master Henry Boadicea
			Beeswing 1833	Dr. Syntax	Paynator Beningbrough mare
				Daughter of	Ardrossan Lady Eliza
		Palma 1840	Emilius 1820	Orville	Beningbrough Evelina
				Emily	Stamford Whiskey mare
			Francesca 1829	Partisan	Walton Parasol
				Daughter of	Orville Buzzard mare
	Cantinière 1870	Stockwell 1849	The Baron 1842	Birdcatcher	Sir Hercules Guiccioli
				Echidna	Economist Miss Pratt
			Pocahontas 1837	Glencoe	Sultan Trampoline
				Marpessa	Muley Clare
		Cantine 1856	Orlando 1841	**Touchstone**	Camel Banter
				Vulture	Langar Kite
			Vivandière 1848	Voltaire	Blacklock Phantom mare
				Martha Lynn	Mulatto Leda
97 **Thebais** 1878	Hermit 1864	Newminster 1848	**Touchstone** 1831	Camel 1822	
				Banter 1826	
			Beeswing 1833	Dr. Syntax 1811	
				Ardrossan mare 1817	
		Seclusion 1857	Tadmor 1846	Ion 1835	
				Palmyra 1838	
			Miss Sellon 1851	Cowl 1842	
				Belle Dame 1839	
	Devotion 1869	Stockwell 1849	The Baron 1842	Birdcatcher 1833	
				Echidna 1838	
			Pocahontas 1837	Glencoe 1831	
				Marpessa 1830	
		Alcestis 1860	**Touchstone** 1831	Camel 1822	
				Banter 1826	
			Sacrifice	Voltaire 1826	
				Virginia 1835	

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98	**Walpurgis** 1878	Trumpeter 1856	Orlando 1841	**Touchstone** 1831	Camel 1822	Waxy Penelope
					Banter 1826	Selim Maiden
				Vulture 1833	Langar 1817	Orville Miss Sophia
					Kite 1821	Alexander Brunette
			Cavatina 1845	Redshank 1833	Sandbeck 1818	Buzzard Alexander mare
					Johanna 1813	Peruvian Musidora
				Oxygen 1828	Emilius 1820	Tramp Mandane
					Whizgig 1819	Cervantes Anticipation
		Das Veilchen 1868	Cavendish 1856	Voltigeur 1847	Voltaire 1826	**Orville** 1799	Beningbrough Evelina
					Martha Lynn 1837	Whiskey Y. Giantess
				Countess of Burlington 1850	**Touchstone** 1831	Zodiac 1801	St. George Abigail
					Lady Emily	Jerboa 1803	Gohanna Camilla
			Vanessa 1861	Newminster 1848	**Touchstone** 1831	Sultan 1816	Selim Bacchante
					Beeswing 1833	Cobweb 1821	Phantom Filagree
				Heiress 1853	Birdcatcher 1833	Y. Phantom 1822	Phantom Emmeline
					Inheritress 1840	Speaker's sister 1817	Camillus Prime Minister's sister
99	**Scottish Chief** 1861	Touchstone 1831	Camel 1822	Whalebone 1807	Waxy Penelope		
				Daughter of 1812	Selim Maiden		
			Banter 1826	Master Henry 1815	**Orville** Miss Sophia		
				Boadicea 1807	Alexander Brunette		
		Fair Helen 1843	Pantaloon 1824	Castrel 1801	Buzzard Alexander mare		
				Idalia 1815	Peruvian Musidora		
			Rebecca 1831	Lottery 1820	Tramp Mandane		
				Daughter of 1818	Cervantes Anticipation		
		The Little Known 1836	Muley 1810	**Orville** 1799	Beningbrough Evelina		
				Eleanor 1798	Whiskey Y. Giantess		
			Lacerta 1816	Zodiac 1801	St. George Abigail		
				Jerboa 1803	Gohanna Camilla		
		Bay Missy 1842	Bay Middleton 1833	Sultan 1816	Selim Bacchante		
				Cobweb 1821	Phantom Filagree		
			Camilla 1832	Y. Phantom 1822	Phantom Emmeline		
				Speaker's sister 1817	Camillus Prime Minister's sister		

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100 **Wenlock** 1869	Lord Clifden 1860	Newminster 1848	Touchstone 1831	Camel 1822	WHALEBONE Selim mare
				Banter 1826	Master Henry Boadicea
			Beeswing 1833	Dr. Syntax 1811	Paynator Beningbrough mare
				Daughter of 1817	Ardrossan Lady Eliza
		The Slave 1852	Melbourne 1834	Humphrey Clinker 1822	Comus Clinkerina
				Daughter of 1825	Cervantes Golumpus mare
			Volley 1845	Voltaire 1826	Blacklock Phantom mare
				Martha Lynn 1836	Mulatto Leda
	Mineral 1863	Rataplan 1850	The Baron 1842	Birdcatcher 1833	Sir Hercules Guiccioli
				Echidna 1838	Economist Miss Pratt
			Pocahontas 1837	Glencoe 1831	Sultan Trampoline
				Marpessa 1830	Muley Clare
		Manganese 1853	Birdcatcher 1833	Sir Hercules 1826	WHALEBONE Peri
				Guiccioli 1823	Bob Booty Flight
			Moonbeam 1838	Tomboy 1829	Jerry Ardrossan mare
				Lunatic 1818	Prime Minister Maignak
101 **Pero Gomez** 1866	Beadsman 1855	Weatherbit 1842	Sheet Anchor 1832	Lottery 1820	Tramp Mandane
				Morgiana 1820	Muley Miss Stephenson
			Miss Letty 1834	Priam 1817	Emilius Cressida
				Daughter of 1815	Orville Buzzard mare
		Mendicant 1843	Touchstone 1831	Camel 1822	Whalebone Selim mare
				Banter 1826	Master Henry Boadicea
			LADY MOORE CAREW 1830	Tramp 1810	Dick Andrews Gohanna mare
				Kite 1821	Bustard Olympia
	Salamanca 1859	Student 1851	Chatham 1839	The Colonel 1825	Whisker My Lady's dam
				Hester 1832	Camel Monimia
			Daughter of 1840	Laurel 1824	Blacklock Wagtail
				Flight 1831	Velocipede Miss Wilkes
		Bravery 1853	Gameboy 1842	Tomboy 1829	Jerry Ardrossan mare
				LADY MOORE CAREW 1830	Tramp Kite
			Ennui 1843	Bay Middleton 1833	Sultan Cobweb
				Blue Devils 1837	Velocipede Care

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102 **Lambton** 1850	The Cure 1841	Physician 1829	Brutandorf 1821	Blacklock 1814	Whitelock Coriander mare
				Mandane 1800	Pot-8-os Y. Camilla
			Primette 1820	Prime Minister 1810	Sancho Miss Hornpipe Teazle
				Miss Paul 1811	Sir Paul Miss Dunnington
		Morsel 1836	Mulatto 1823	Catton 1809	Golumpus Lucy Gray
				Desdemona 1811	Orville Fanny
			Linda 1825	Waterloo 1814	Walton Penelope
				Cressida 1807	Whiskey Y. Giantess
	Elphine 1837	Emilius 1820	Orville 1799	BENINGBROUGH 1791	King Fergus Herod mare
				Evelina 1791	Highflyer Termagant
			Emily 1810	Stamford 1794	Sir Peter Horatia
				Daughter of 1799	Whiskey Grey Dorimant
		Variation 1827	Bustard 1813	Castrel 1801	Buzzard Alexander mare
				Miss Hap 1806	Shuttle Haphazard's sister
			Johanna Southcote 1811	BENINGBROUGH 1791	King Fergus Herod mare
				Lavinia 1802	Pipator Dick Andrews' dam
103 **Cossack** 1844	Hetman Platoff 1836	Brutandorf 1821	Blacklock 1814	Whitelock 1803	Hambletonian Rosalind
				Daughter of 1799	Coriander Wildgoose
			Mandane 1800	Pot-8-os 1773	Eclipse Sportsmistress
				Y. Camilla 1787	Woodpecker Camilla
		Daughter of 1820	Comus 1809	SORCERER 1796	Trumpator Y. Giantess
				Houghton Lass 1801	Sir Peter Alexina
			Marciana 1809	STAMFORD 1794	Sir Peter Horatia
				Marcia 1797	Coriander Faith
	Joannina 1835	Priam 1827	Emilius 1820	Orville 1799	Beningbrough Evelina
				Emily 1810	STAMFORD Whiskey mare
			Cressida 1807	Whiskey 1789	Saltram Calash
				Y. Giantess 1790	Diomed Giantess
		Joanna 1830	Sultan 1816	Selim 1802	Buzzard Alexander mare
				Bacchante 1809	Williamson's Ditto Calomel's sister
			Filagree 1815	Soothsayer 1808	SORCERER Goldenlocks
				Web 1808	Waxy Penelope

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104 **Ely** 1861	Kingston 1849	Venison 1833	Partisan 1811	Walton 1799	Sir Peter 1784 Arethusa 1792
				Parasol 1800	Pot-8-os 1773 Prunella 1788
			Fawn 1823	Smolensko 1810	SORCERER 1796 Wowski 1797
				Jerboa 1803	Gohanna 1790 Camilla 1778
		Queen Anne 1843	Slane 1833	Royal Oak 1823	Catton 1809 Smolensko mare 1818
				Daughter of 1819	Orville 1799 Epsom Lass
			Garcia 1823	Octavian 1807	Stripling 1795 Oberon mare
				Daughter of 1803	Shuttle 1793 Katherine 1798
	The Bloomer 1850	Melbourne 1834	Humphrey Clinker 1822	Comus 1809	SORCERER 1796 Houghton Lass 1861
				Clinkerina 1812	Clinker 1805 Pewet 1786
			Daughter of 1825	Cervantes 1806	Don Quixote 1784 Evelina 1791
				Daughter of 1818	Golumpus 1802 Paynator mare 1810
		Lady Sarah 1841	Velocipede 1825	Blacklock 1814	Whitelock 1803 Coriander mare
				Daughter of 1817	Juniper 1805 Sorcerer mare 1810
			Lady Moore Carew 1830	Tramp 1810	Dick Andrews 1797 Gohanna mare 1803
				Kite 1821	Bustard 1813 Olympia 1815
105 **See Saw** 1865	Buccaneer 1857	Wild Dayrell 1852	Ion 1835	Cain 1822	Paulowitz Paynator mare
				Margaret 1831	Edmund Medora
			Ellen Middleton 1846	Bay Middleton 1833	Sultan Cobweb
				Myrrha 1831	Malek Bessy
		Daughter of 1841	Little Red Rover 1827	Tramp 1810	Dick Andrews Gohanna mare
				Miss Syntax 1814	Paynator Beningbrough mare
			Eclat 1830	Edmund 1824	**Orville** Emmeline by **WAXY**
				Squib 1820	Soothsayer Berenice
	Margery Daw 1856	Brocket 1850	Melbourne 1834	Humphrey Clinker 1822	Comus Clinkerina
				Daughter of 1825	Cervantes Golumpus mare
			Miss Slick 1843	Muley Moloch 1830	Muley by **Orville** Nancy
				Daughter of 1832	Whisker Sam mare
		Protection 1845	Defence 1824	Whalebone 1807	**WAXY** Penelope
				Defiance 1816	Rubens Little Folly
			Testatrix	Touchstone 1831	Camel Banter
				Y. Worry	Emilius by **Orville** Worry

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Valentine
1833

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			Rosalind 1788	
		Daughter of 1799	Coriander 1786	
			Wildgoose 1792	
	PHANTOM MARE 1816	Phantom 1808	Walton 1790	
			Julia 1799	
		Daughter of 1802	Overton 1788	
			Gratitude's dam 1796	
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			Mrs. Barnet 1806	
		Banshee 1812	Sorcerer 1796	
			Blowing's dam 1796	
	PHANTOM MARE 1816	Phantom 1808	Walton 1790	
			Julia 1799	
		Daughter of 1802	Overton 1788	
			Gratitude's dam 1796	

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e 1825
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King of Trumps 1849
D. by Viator

Hornsea 1832
D. by Cerberus

Blackdrop 1840
D. by Langar

The Cure 1841
D. by Mulatto

Physician 1829
D. by Prime Minister

Hetman Platoff 1836
D. by Comus

Cossack 1844
D. by Priam

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Charles XII. 1836
D. by Prime Minister

Barnton 1844
D. by Mulatto

Ben Webster 1857
D. by The Prime Warden

Fandango 1852
D. by Don John

Tearaway 1838
D. by Whisker

Voltigeur 1847
D. by Mulatto

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? Taurus 1826
D. by Woful

Turnus 1846
D. by Defence

John o'Gaunt 1838
D. by Partisan

1830
Andrews

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Retriever 1836
D. by Whisker

ntiary 1831
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Chesterfield 1834
D. by Octavian

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Bantam 1843
D. by Dr. Syntax

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t 1835
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Colsterdale 1848
D. by Tomboy

Van Tromp 1844
D. by Sandbeck

De Ruyter 1848
D. by Sandbeck

War Eagle 1844
D. by Sir Hercules

Van Galen 1853
D. by Inheritor

Ivan 1851
D. by Brutandorf

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King Tom 1851
D. by Glencoe

D. by Glaucus

Phaeton 1865
D. by Storm

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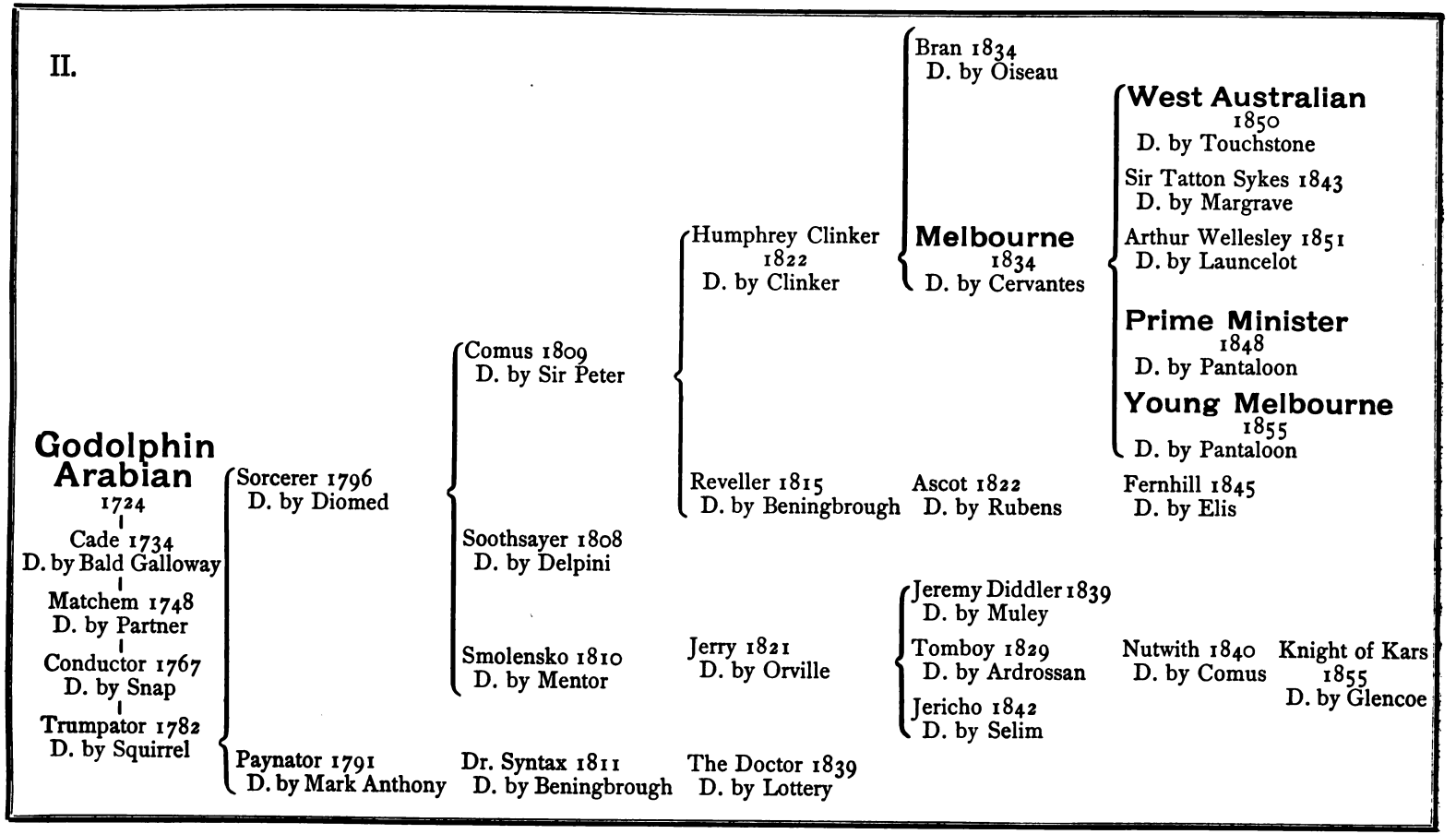

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III.

Byerly-Turk
1689

Jigg 1705
D. by Old Spanker

Partner 1718
D. by a Barb

Tartar 1743
D. by Arab

Herod 1758
D. by Blaze

Florizel 1768
D. by Cygnet

Woodpecker
1773
D. by Old Cade

Highflyer
1774
D. by Blank

Diomed 1777
D. by Spectator

Buzzard 1787
D. by Dux

Sir Peter Teazle
1784
D. by Snap

Sir Archy
D. by Rockingham

Quiz 1798
D. by Matchem

Castrel 1801
D. by Alexander

Selim 1802
D. by Alexander

Rubens 1805
D. by Alexander

Stamford 1794
D. by Eclipse

Walton 1799
D. by Dungannon

Sir Oliver 1800
D. by Diomed

Haphazard 1797
D. by Eclipse

Sir Paul 1802
D. by Tandem

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Timoleon 1813
D. by Saltram

Roller 1814
D. by Y. Woodpecker

Pantaloon 1824
D. by Peruvian

Merlin 1815
D. by Delpini

Langar 1817
D. by Walton

Sultan 1816
D. by Williamson's Ditto

Boston 1833
D. by Ball's Florizel

Frenzy 1830
D. by Walton

Windhound 1847
D. by Touchstone

Sleight of Hand 1836
D. by Filho da Puta

Lamplighter 1823
D. by Walton

Elis 1833
D. by Sir Oliver

Epirus 1834
D. by Sir Oliver

Glencoe 1831
D. by Tramp

Ishmael 1830
D. by Phantom

Beiram 1829
D. by Stamford

Jereed 1834
D. by Comus

Bay Middleton 1833
D. by Phantom

Lexington 1850
D. by Sarpedon

Thormanby 1857
D. by Muley Moloch

Ephesus 1848
D. by Defence

Pyrrhus I. 1843
D. by Defence

Emilius 1857
D. by Jereed

Burgundy 1843
D. by Drone

Cowl 1842
D. by Priam

The Flying Dutchman 1846
D. by Sandbeck

Andover 1851
D. by Defence

Cramond 1857
D. by Mango

St. Patrick 1817
D. by Dick Andrews

Phantom 1808
D. by Whiskey

Partisan 1811
D. by Pot-8-os

St. Francis 1835
D. by Scud

? Taurus 1826
D. by Soothsayer

Glaucus 1830
D. by Selim

Mameluke 1824
D. by Stamford

Venison 1833
D. by Smolensko

Gladiator 1833
D. by Moses

The Nob 1838
D. by Emilius

Nabob 1849
D. by Camel

Fallow Buck 1845
D. by Emilius

Kingston 1849
D. by Slane

Alarm 1842
D. by Defence

Rattle 1850
D. by Camel

Peon 1861
D. by Annandale

Fitz Gladiator 1852
D. by Reveller

Sweetmeat 1842
D. by Starch or Voltaire

Filho da Puta 1812
D. by Waxy

Giovanni 1828
D. by Don Juan

Colwick 1828
D. by Sir Oliver

Paulowitz 1813
D. by Highflyer

Cain 1822
D. by Paynator

Ion 1835
D. by Edmund

Wild Dayrell 1852
D. by Bay Middleton

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Templer 1873
D. by Touchstone

Maelstrom 1873
D. by Touchstone

Andred 1870
D. by Voltigeur

Clanronald 1873
D. by Newminster

Craig Millar 1872
D. by Fitz Roland

Cthus 1866
D. by Touchstone

Prince Charlie
1869
D. by Surplice

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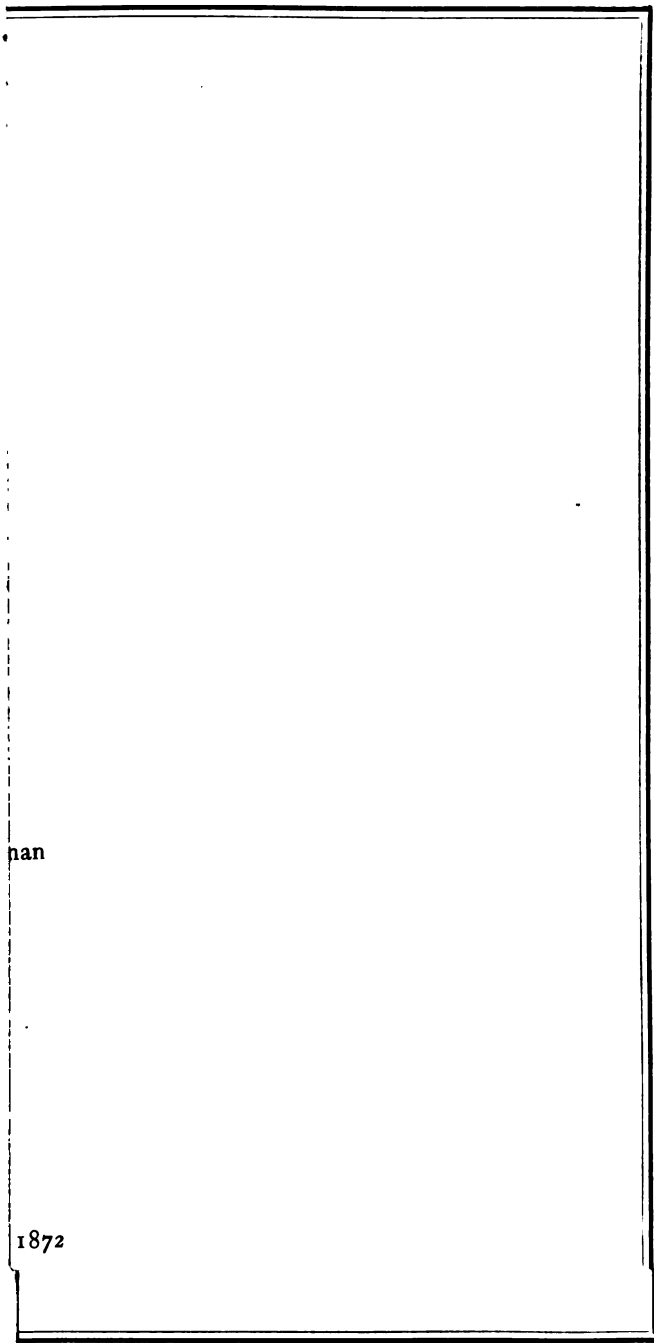

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VI.

Weatherbit 1842
D. by Priam

- Bel Demonio 1861
  D. by Birdcatcher
- **Beadsman** 1855
  D. by Touchstone
  - **Pero Gomez** 1866
    D. by Student
  - **The Palmer** 1864
    D. by Cowl
    - Pellegrino 1874
      D. by Macaroni
    - Grey Palmer 1872
      D. by Chanticleer
  - **Rosicrucian** 1862
    D. by Cowl
    - Chevron 1874
      D. by Stockwell
    - Beauclerc 1875
      D. by Voltigeur
  - **Blue Gown** 1865
    D. by Stockwell
    - Vitus 1875
      D. by Birdcatcher
    - Blue Rock 1876
      D. by Storm
  - Alvarez 1869
    D. by Student
  - Coeruleus 1872
    D. by Stockwell
  - The Jolly Friar 1873
    D. by Macaroni
- **Brown Bread** 1862
  D. by West Australian
  - Whitebait 1871
    D. by Lambton
- Brown Tommy 1864
  D. by West Australian
- **Mandrake** 1864
  D. by Rataplan
  - Mango 1874
    D. by Knight of Kars
- Neptunus 1859
  D. by Birdcatcher

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VII.

Voltigeur 1847
D. by Mulatto

- Skirmisher 1854
  D. by Gardham
- **The Ranger** 1860
  D. by Gardham
  - **Uhlan** 1869
    D. by Turnus
  - The Duke of Cambridge 1870
    D. by King Tom
- Cavendish 1856
  D. by Touchstone
- John Davis 1861
  D. by Liverpool
  - John Day 1873
    D. by Buccaneer
- Tibthorpe 1854
  D. by The Cure
  - **? Thurio** 1875
    D. by Orlando
- **Vedette** 1854
  D. by Birdcatcher
  - **Speculum** 1865
    D. by Alarm
    - **Rosebery** 1872
      D. by Newminster
    - **Sefton** 1875
      D. by West Australian
  - **Galopin** 1872
    D. by The Flying Dutchman
- Brennus 1866
  D. by Stockwell
- Virgilius 1858
  D. by Emilius
  - Hector 1872
    D. by Saunterer
  - Double Zero 1873
    D. by Phlegon
  - Wolfsberg 1866
    D. by Bay Middleton
- Watchfire 1859
  D. by Flatcatcher
- Fortunio 1864
  D. by Slane
- Falkland 1867
  D. by Faugh-a-Ballagh

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VIII.

King Tom 1851
D. by Glencoe

- Dalesman 1863
  D. by Pantaloon
- Grouse 1858
  D. by Melbourne
- **Kingcraft** 1867
  D. by Voltigeur
- Marsworth 1871
  D. by Fernhill or Gleam
- King o' Scots 1867
  D. by The Flying Dutchman
- King of Diamonds 1857
  D. by Defence
- Old Calabar 1859
  D. by Picaroon
- **Wingrave** 1859
  D. by The Cure
- Coltness 1873
  D. by Thormanby
- King Hal 1863
  D. by Newminster
- **King Lud** 1869
  D. by Voltigeur
- **King Alfred** 1863
  D. by Bay Middleton
- Master Fenton 1859
  D. by Touchstone
- Mogador 1860
  D. by Orlando
- **Restitution** 1865
  D. by Slane
- Enchanteur 1870
  D. by Chanticleer
- Phaeton 1865
  D. by Storm

- **Lowlander** 1870
  D. by Windhound
- Bruce 1874
  D. by Newcastle
- Indian Ocean 1867
  D. by Vortex
- King Alfonso
  D. by Vandal
- Foxhall 1878
  D. by Lexington

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IX.

Melbourne
1834
D. by Cervantes

- Prime Minister 1856
  D. by Pantaloon
- Arthur Wellesley 1851
  D. by Launcelot
- Sir Tatton Sykes 1843
  D. by Margrave
- Mentmore 1855
  D. by Defence
- Oulston 1852
  D. by Muley Moloch
- **Young Melbourne** 1855
  D. by Pantaloon
- **West Australian** 1850
  D. by Touchstone
- Brocket 1850
  D. by Muley Muloch

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Knight of the Garter 1864
D. by Touchstone

Mornington 1868
D. by Orlando

York Minster 1869
D. by Newminster

Syrian 1867
D. by Autocrat

Statesman 1869
D. by Orlando

Pell Mell 1869
D. by Voltigeur

General Peel 1861
D. by Orlando

Brother to Strafford 1860
D. by Gameboy

Strafford 1861
D. by Gameboy

The Earl 1865
D. by Orlando

Rapid Rhone 1860
D. by Lanercost or Retriever

Brother to Rapid Rhone 1859
D. by Lanercost or Retriever

Eole II. 1876
D. by The Baron

The Wizard 1857
D. by The Cure

Ruy Blas 1864
D. by Gladiator

Joskin 1856
D. by The Major

Lelio 1862
D. by Launcelot

Templier 1862
D. by Cotherstone

Palmerston 1867
D. by The Flying Dutchman

Przedswit 1872
D. by Stockwell

Earl of Dartrey 1872
D. by Rataplan

Lord Glasgow 1867
D. by Hobbie Noble

Goswin 1864
D. by St. Nicholas

Plebeian 1872
D. by Autocrat

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X.

Monarque
1852
D. by Royal Oak

- Le Maréchal 1860
  D. by Sir Hercules
- General 1868
  D. by Festival
- Boulogne 1866
  D. by Ion
- **Gladiateur** 1862
  D. by Gladiator
  - Lydon 1868
    D. by Sesostris
  - Grand Coup 1868
    D. by Stockwell
  - Lord Gough 1869
    D. by Rataplan
  - Highborn 1870
    D. by Faugh-a-Ballagh
- Le Mandarin 1862
  D. by Nuncio
- Henry 1868
  D. by Ion
  - Balagny 1874
    D. by Fitz Gladiator
- **Trocadero** 1870
  D. by Epirus
- **Hospodar** 1860
  D. by Emilius
  - Le Drole 1873
    D. by Black Eyes
- Y. Monarque 1863
  D. by Emilius
- Longchamps 1861
  D. by The Baron
  - Nougat 1872
    D. by Gladiator
- **Consul** 1866
  D. by Sir Hercules
- Feu d'Amour 1871
  D. by Ventre St. Gris
- Don Carlos 1867
  D. by The Baron
- Patricien 1864
  D. by Gladiator
- Le Sarrazin 1865
  D. by Gladiator

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XI.

The Flying Dutchman 1846
D. by Sandbeck

- Tourmalet 1862
  D. by The Baron
- Cape Flyaway 1857
  D. by Melbourne
- Amsterdam 1854
  D. by Elis
  - Schiedam 1865
    D. by Heron
- **Dollar** 1860
  D. by Slane
  - Salvanos 1869
    D. by Ion
  - Fontainebleau 1874
    D. by Ion
  - **Salvator** 1872
    D. by Ion
  - St. Cyr 1872
    D. by Ion
  - Il Maëstro 1869
    D. by Pantaloon
  - Patriarche 1874
    D. by I. Birdcatcher
- Y. Dutchman
  D. by Touchstone
- **Ellington** 1853
  D. by Lanercost
- **Dutch Skater** 1866
  D. by Gladiator
  - **Insulaire** 1875
    D. by Beadsman
- Ignoramus 1854
  D. by The Little Known

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XII.

Wild Dayrell
1852
D. by Bay Middleten

- **Buccaneer** 1857
  D. by Little Red Rover
  - **Cadet** 1867
    D. by Orlando
  - **Kisbér** 1873
    D. by Rataplan
  - Kisbér öcscse 1877
    D. by Rataplan
  - Paul Jones 1865
    D. by Chanticleer
  - **See Saw** 1865
    D. by Brocket
  - **Vordermann** 1873
    D. by Stockwell
  - **Flibustier** 1867
    D. by Stockwell
  - Waisenknabe 1872
    D. by Stockwell
  - **Balvany** 1878
    D. by Newminster
  - **Nil Desperandum**
    1875
    D. by Adventurer
  - **Gamecock** 1870
    D. by Chanticleer
  - **Count Zdenko** 1867
    D. by Caster
  - **Good Hope** 1873
    D. by King Tom
  - **Pirat** 1874
    D. by Fernhill
- Allbrook 1866
  D. by Daniel O'Rourke
  - **Oroszvár** 1875
    D. by St. Albans
- Wild Oats 1866
  D. by Harkaway
- Guy Dayrell 1867
  D. by King Tom
- Idus 1867
  D. by John o'Gaunt
- The Rake 1864
  D. by I. Birdcatcher

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